

SIMEON LARINDE

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EDUCATION

University of Rhode Island, Kingston RI | Cumulative GPA: 3.82/4.00

Expected May 2027

Bachelor of Science in Computer Science (Cybersecurity Minor)

Bachelor of Science in Applied Mathematics

Bachelor of Arts in French

Software Engineering Capstone Project: RentEase (Product Owner, Lead Developer)

Spring 2025

- Led a 4-person team to develop a full-stack application that connects college students with off-campus housing options

Relevant Coursework: Design & Analysis of Algorithms, Operating Systems & Networking, Numerical Analysis, Computer Organization & Architecture, Software Engineering, Data Structures & Abstractions, Statistical Methods for Research, Technical Writing, Human-Computer/Human-AI Interaction, Fundamentals of Programming Languages, Advanced Calculus & Applications, Computer Systems for Modern Cloud Computing, Linear Algebra, Multivariable Calculus, Differential Equations, Discrete Mathematics, Computational Mathematics, Applied Combinatorics, Network & Systems Security, Digital Forensics, Information Assurance

Research Interests: Human-Computer Interaction and Accessibility, Human-AI Interaction and Collaboration, AI/ML Bias and Fairness, Sociotechnical AI Evaluation, Applied and Computational Mathematics

RESEARCH EXPERIENCE

Undergraduate Researcher

Sept. 2026 - Present

Structure Analytics Interdisciplinary Lab (SAIL), University of Rhode Island | **Advisor:** Dr. Pengyu (Peter) Liu

- Researching how AI-generated text differs structurally from human-written text, using mathematical measures of linguistic complexity grounded in algorithmic information theory and graph theory
- Applying the Ladderpath-index to quantify hierarchical reuse of recurring patterns in matched human and LLM-generated corpora, benchmarked against Lempel–Ziv and compression-based complexity measures
- Measuring syntactic differences between human and machine text by encoding sentence dependency trees as graph polynomials and computing polynomial-based syntax distances
- Developing a composite "linguistics score" for comparing language models on how closely their output matches natural language structure, with the goal of validating it against human readers' judgments

Undergraduate Researcher

Aug. 2026 - Present

Machine Learning for Socio-technical Systems (ML4STS) Lab, University of Rhode Island | **Advisor:** Dr. Sarah Brown

- Researching community algorithmic auditing: how non-technical community advocates can evaluate algorithmic systems using publicly available outcomes data without model access
- Designing a guided setup interface for Bench Tools, an internal Python library for authoring and running LLM benchmarks, to make benchmark configuration and results interpretable to non-technical users
- Applying human-computer interaction methods to study how audit results are interpreted, with focus on presentation of subgroup disparities and common statistical misreadings

Undergraduate Researcher

Aug. 2025 - Present

Human-Centered Experiential Technologies (HAX) Lab, University of Rhode Island | **Advisor:** Dr. Shaun Wallace

- Researching how browser-based pupillometry can work reliably without dedicated eye-tracking hardware: training and validating computer-vision models that distinguish usable pupil frames from noisy ones using only a webcam
- Developing MindScope, a browser-based system that turns an ordinary webcam into a tool for measuring pupil size as a proxy for estimating cognitive effort
- Evaluating data-quality pipelines for remote research to support inclusive, remote studies of attention and visual strain among low-vision and ADHD populations underrepresented in lab-based research

Undergraduate Research Fellow

May 2026 - July 2026

Human-Centered Experiential Technologies (HAX) Lab, University of Rhode Island | **Advisor:** Dr. Shaun Wallace

- Awarded the URI College of Arts & Sciences Fully Funded Summer Undergraduate Research Fellowship (competitive, college-wide)
- Designed and validated a webcam-based light-calibration gate for MindScope, an in-browser system for scalable, remote pupillometry research: scoring brightness, glare, and evenness in real time and reducing the share of frames flagged unusable from 21% to 0% across two independent data-collection studies
- Designed and trained an in-browser eye-quality classifier (FastAI-trained on hand-labeled real webcam and synthetic UnityEyes images, exported to ONNX for client-side inference) to flag unusable eye crops before they reach downstream analysis.

- Presented research findings (spanning light calibration, head-position normalization, and eye-quality classification) at the URI College of Arts & Sciences Research Symposium

PRESENTATIONS & INVITED TALKS

- Machine Learning Symposium on Justice in Healthcare, Education, and Public Policy at Brown University, *How AI works: LLMs Unplugged*, Providence, RI September 25, 2026 | Co-Facilitator with Dr. Sarah Brown and Dr. Kenya Andrews
- College of Arts & Sciences Research Symposium at the University of Rhode Island, *MindScope: Machine Learning-Driven Analysis of Browser-Based Pupillometry Data*, Kingston, RI September 25, 2026
- AI/ML Bias and Fairness Workshop at the National Society of Black Engineers (NSBE) Annual Convention, *How AI works: LLMs Unplugged*, Baltimore, MD March 20, 2026 | Co-Speaker with Dr. Sarah Brown and Dr. Kenya Andrews
- AI/ML Bias and Fairness Facilitators Training Workshop at the National Society of Black Engineers (NSBE) Annual Convention, *How AI works: LLMs Unplugged*, Baltimore, MD March 20, 2026 | Co-Speaker with Dr. Sarah Brown and Dr. Kenya Andrews
- AI/ML Bias and Fairness Workshop in Introduction to Africana Studies (AAF201) Class at the University of Rhode Island, *How AI works: LLMs Unplugged*, Kingston, RI November 24, 2025 | Co-Speaker with Dr. Sarah Brown
- AI/ML Bias and Fairness Workshop at the National Society of Black Engineers (NSBE) Region I Fall Regional Conference, *How AI works: LLMs Unplugged*, Albany, NY November 1, 2025 | Co-Speaker with Dr. Sarah Brown
- Software Engineering Capstone Project Trade Show at the University of Rhode Island, *RentEase: Connecting college students with off campus housing options*, Kingston, RI May 7, 2025

HONORS, AWARDS & FELLOWSHIPS

- Inducted member, Pi Mu Epsilon, Rhode Island Alpha Chapter (2026)
- Fully Funded Summer Undergraduate Research Fellowship | College of Arts & Sciences, University of Rhode Island (2026)
- President's List, University of Rhode Island (2026)
- Inducted member, The Honor Society of Phi Kappa Phi (2026)
- Inducted member, The National Society of Leadership and Success (2026)
- Inducted member, Society for Collegiate Leadership & Achievement (2026)
- Pathways to Success Scholar | Department of Computer Science and Statistics, University of Rhode Island (2024)
- Jeune Espoir Award | Department of Modern and Classical Languages and Literatures, University of Rhode Island (2024)
- Dean's List | College of Arts & Sciences, University of Rhode Island (2023, 2024, 2025)
- Presidential Scholarship, University of Rhode Island (2023)

TEACHING EXPERIENCE

Undergraduate Teaching Assistant | Fall 2026 Aug. 2026 - Present
Department of Mathematics and Applied Mathematical Sciences, University of Rhode Island

- Provided in-class tutoring for 100+ students and held office hours open to 200+ students for the **Applied Precalculus** course
- Computed grades and managed grading workflows for quizzes and assignments
- Coached students in breaking down complex mathematical problems and reasoning through solutions step by step

Undergraduate Teaching Assistant | Spring 2025 Jan. 2025 - May 2025
Digital Forensics and Cyber Security Center (DFCSC), University of Rhode Island

- Provided in-class tutoring for 50+ students and held office hours for the **Introduction to Cybersecurity** course
- Computed grades and managed grading workflows for quizzes and assignments using Jira

Undergraduate Teaching Assistant | Fall 2024 Aug. 2024 - Dec. 2025
Department of Computer Science and Statistics, University of Rhode Island

- Provided in-class tutoring for 80+ students and held office hours open to 150+ students for **Introduction to Computer Science** course
- Computed grades and managed grading workflows for homework and quizzes
- Coached students in breaking down complex programming problems and reasoning through solutions step by step

TECHNICAL & INDUSTRY EXPERIENCE

Forward Program Fellow Aug. 2026 - Present
McKinsey.org

- Selected for McKinsey's Forward program covering consulting-style structured problem-solving approach, business communication, adaptability, and digital/AI fundamentals.

Cloud Infrastructure Engineer Intern

Sept. 2024 - Sept. 2026

Cloud & IT Infrastructure Team, University of Rhode Island IT Services

- Collaborated with the Enterprise Applications Systems (EAS) team on building an Apache Airflow Integration between Brightspace and InfoEd, automating extraction of course enrollment and training-certificate completion data via REST API and scheduled loading into the research administration system, replacing a manual compliance tracking process for 100+ researchers
- Built MongoDB aggregation pipelines to analyze LibreChat (the University's GenAI platform) usage across the university, surfacing top users and message volume over rolling 30/60/90-day windows and replacing manual review of 10,000+ records
- Designed a percentile-based classification model that segments LibreChat users into high, mid, and low usage tiers with thresholds that adapt to the current data distribution rather than fixed cutoffs, enabling leadership to forecast the cost of scaling the platform from a 200-user cap to 2,000 users
- Developed and maintained Grafana dashboards monitoring AWS AppStream fleets, JupyterHub, R Studio Servers, and university virtual computer lab environments, giving the team real-time visibility into those services
- Implemented Grafana alerting and configured dedicated contact points across infrastructure and backup operations, covering service availability, missing data, disk usage, memory pressure, CPU utilization on the production and development MariaDB clusters
- Prototyped an AI skunkworks Instructor QA Agent built on LibreChat that answered natural-language questions about syllabi, grading policies, and coursework from ingested course documents, and presented it to stakeholders to scope a student-facing academic advising assistant
- Authored and maintained technical documentation on BookStack covering API research, integration architecture, and configuration procedures, giving teammates a current reference that reduced onboarding time and duplicate investigation across projects
- Tracked and managed deliverables across concurrent infrastructure projects in Asana, coordinating task ownership and deadlines with supervisors and teammates

AI Engineer Intern

Aug. 2025 - Dec. 2025

Amazon Web Services

- Selected for the competitive AWS AI & ML Scholars Program to develop skills in cloud-based AI engineering and responsible AI practices, focusing on scalable, ethical machine learning solutions on AWS infrastructure
- Built and deployed generative AI applications on Amazon SageMaker, training and hosting models end to end rather than working from pre-built notebooks
- Implemented retrieval-augmented generation pipelines integrating foundation models from Amazon Bedrock with external knowledge sources, handling document ingestion, embedding, and retrieval
- Applied prompt engineering and model evaluation techniques to improve output quality and reduce hallucination across two projects
- Practiced responsible AI methods including bias evaluation, output guardrails, and documentation of model limitations, aligned with AWS responsible AI guidance

Technical Solutions Engineer Intern

May 2024 - Aug. 2024

Cloud & IT Infrastructure Team, University of Rhode Island IT Services

- Built a Go-based internal web application enabling IT staff to dynamically query student and staff records from Oracle PeopleSoft and Microsoft Active Directory through RESTful API integrations, reducing lookup time from several minutes to ~20s per request
- Consolidated two previously separate manual lookup processes into a single Single-Sign-On (SSO) interface used by 10+ IT staff, eliminating several hours of repetitive work per week
- Implemented AWS cloud security practices including IAM role configuration and least-privilege access controls across several internal services
- Developed Grafana dashboards visualizing system health and usage data, giving IT staff real-time visibility into faculty virtual machine usage in 5+ university virtual computer lab environments

IT Student Technician

Jan. 2024 - Jan. 2024

Classroom Media Assistance Team, University of Rhode Island IT Services

- Delivered one-on-one technical support to 150+ students, professors, and faculty, walking users step-by-step through classroom technology setup and troubleshooting to minimize disruptions to instruction
- Diagnosed and resolved AV system issues, tracking and documenting requests through ServiceNow to ensure timely follow-up and clear communication with users
- Installed and maintained classroom AV systems, quickly learning new equipment and software to support evolving faculty needs
- Performed routine technology checks across 30+ classrooms, proactively identifying and fixing issues before they affected users

LEADERSHIP & SERVICE

- Vice President, National Society of Black Engineers (NSBE), URI Chapter Fall 2026 - Present
- Co-Founder & Communications Chair, URI Quantum Tech Club Spring 2026 - Present
- Global Peer Ambassador, Office of International Students and Scholars (OISS), URI Spring 2024 - Present

• International Student Peer Ambassador, Office of International Students and Scholars (OISS), URI	Fall 2023 - Present
• Founding Member, URI Cyber Club	Fall 2023 - Present
• Senator, National Society of Black Engineers (NSBE), URI Chapter	Fall 2024 - Spring 2026
• Freshman Senator, National Society of Black Engineers (NSBE), URI Chapter	Fall 2023 - Spring 2024

PROFESSIONAL AFFILIATIONS

- Student Member, Association for Computing Machinery (ACM)
- Student Member, Society for Industrial and Applied Mathematics (SIAM)
- Student Member, Institute of Electrical and Electronics Engineers (IEEE)
- Collegiate Member, National Society of Black Engineers (NSBE)
- Member, Amazon Web Services (AWS) Certified Community

TECHNICAL SKILLS & CERTIFICATIONS

Languages: C, C++, Python (pandas, NumPy, Matplotlib), Rust, Dart/Flutter, Go, JavaScript, SQL

Tools & Platforms: Amazon Web Services, Apache Airflow, Grafana, Linux, Bash, Git/GitHub, Docker, Firebase, Jira, MATLAB

Certifications: AWS Machine Learning Foundations, AWS Solutions Architect Associate, Linux Professional Institute Linux Essentials, AWS Certified Cloud Practitioner

Languages Spoken: English (native), Yoruba (native), French (limited working proficiency)