

Laasya Aki

laki@andrew.cmu.edu | 612-417-5749 | <https://www.linkedin.com/in/laasyaaki> | <http://laasyaaki.github.io>

EDUCATION

Carnegie Mellon University

May 2028

Bachelor of Science in Computer Science, Concentration in Machine Learning

- Relevant Coursework: Data Structures and Algorithms, Computer Systems, Functional Programming, Human-Computer Interaction, Intro to Robotics, Discrete Math, AI/Cybersecurity Independent Study

EXPERIENCE

Dispatch

May 2025 - Aug. 2025

Software Engineering Intern

- Migrated mobile test suite from **Appium** to **Maestro Cloud (YAML, Ruby, JavaScript, AWS)**, improving test reliability and reducing regression testing time by **40 hours** per 3-week sprint.
- Developed scalable, automated web test suites (**Playwright, Pytest, Python**), increasing coverage by **25%**.
- Trained and deployed an **AI Agent** to convert legacy automation suites from **Selenium** to **Playwright**, automating the migration of **200+** test cases.

Carnegie Mellon University

Sept. 2024 - present

AI and Cybersecurity Research Assistant, Software and Societal Systems Department

- Constructing a **knowledge graph** of cyber defense playbooks (**Python, LLMs, RAG, MITRE D3FEND**) to map cyber defense techniques, enhancing automated threat response capabilities for an **NSA-funded project**.
- Designing a **dual-agent AI system** to autonomously test and validate the effectiveness of LLM-generated defense playbooks against simulated cyberattacks.
- Enabling adaptive response strategies via a **rank-ordering algorithm** to evaluate defense playbook effectiveness in real-time based on situational threat analysis.

General Mills

June 2024 - Aug. 2024

Digital & Industrial Innovation IoT Intern

- Prototyped **Industrial IoT (IIoT)** devices and platforms to create a scalable blueprint for integration into General Mills' future smart factory initiatives.
- Deployed and containerized applications with **Docker** to manage IIoT hardware.
- Designed interactive **Grafana dashboards** to interpret sensor data, providing key data-driven insights.

Minnesota Twins

May 2023 - Aug. 2023

Software Engineering Intern

- Developed a full-stack web app (**React, TypeScript, Prisma, GCP, Tailwind**) with **CRUD** functionality, saving sales executives **3 hours per week** by automating ticket assignments.
- Engineered **GraphQL endpoints** for employee and ticket data **APIs**, improving response times for over **10** apps.

PROJECTS AND LEADERSHIP

CMUEats.com

May 2025 - present

Tech Lead, CMU ScottyLabs

- Leading 5-person development team for CMUEats.com (**React, Typescript, Postgres**), a web platform serving over **5,000 weekly users** at Carnegie Mellon.
- Collaborating with CMU Dining Services to ideate and develop new features, such as pinned locations and a sponsor carousel, to directly enhance user engagement.

Bias Lens

Sept. 2025

- Developed web app (**React/Next.js, TypeScript, Gemini API, Firebase DB/Auth, Tailwind**) to identify gender bias in medical studies | SteelHacks XII WiCs Award, Gemini API Award, Product Design Track

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Java, C, C++, Ruby, SQL, HTML/CSS, SML, x86-64 Assembly

Frameworks & Libraries: React, React Native, Playwright, NodeJS, Pytest, Prisma, Tailwind, Appium, Selenium, Axios

Tools & Technologies: Git, Docker, AWS, GCP, GraphQL, REST APIs, CI/CD, Maestro Cloud, Figma, LLMs, RAG, Prompt Engineering, Firebase, Postgres