

# Laasya Aki

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## EDUCATION

### Carnegie Mellon University

May 2028

Bachelor of Science in **Computer Science** with a concentration in **Machine Learning**

- Relevant Coursework: Data Structures and Algorithms, Computer Systems, Functional Programming, Intro to Human-Computer Interaction, Intro to Robotics, Discrete Mathematics | GPA: 3.3/4.0

## EXPERIENCE

### Dispatch

May 2025 - present

QA Engineering Intern

- Migrating mobile test automation (**YAML, Ruby, JavaScript, AWS**) from **Appium** to **Maestro Cloud**, improving reliability and reducing regression testing time by **40 hours** every 3 week sprint
- Created scalable, automated regression suites (**Playwright, Pytest, Python**) for the Dispatch web platform, increasing test coverage and reducing manual QA time

### Carnegie Mellon University

Sept. 2024 - present

AI and Cybersecurity Research Assistant, Software and Societal Systems Department

- Constructing knowledge graph (**Python, prompt engineering, machine learning**) of the **MITRE D3FENSE matrix** using **OpenAI GPT-4o** and **retrieval-augmented generation (RAG)** architecture for an NSA-funded cybersecurity project
- Designing a dual-agent AI system where one agent executes simulated cyberattacks, while the other selects and executes defense **playbooks** generated by an LLM referencing the knowledge graph
- Implementing a **rank-ordering algorithm** to evaluate the effectiveness of defense playbooks in real-time scenarios, enabling adaptive response strategies based on situational threat analysis

### General Mills

June 2024 - Aug. 2024

Digital & Industrial Innovation IoT Intern

- Prototyped and demonstrated **Industrial IoT (IIoT)** devices and platforms in a **Digital Innovation Lab** showcase, attended by 800+ people
- Deployed and containerized applications using **Docker** to configure and manage IIoT hardware intended for future integration in **General Mills' manufacturing plants**
- Designed interactive **Grafana dashboards** to interpret real-time sensor data and enable **data-driven insights**

### Minnesota Twins

May 2023 - Aug. 2023

App Development Intern

- Developed fullstack web app (**React, TypeScript, Prisma, GCP, Tailwind CSS**) with **CRUD functionality** to match sales reps with different ticket types saving executives **3 hours/week**
- Set up **graphql endpoints** on employee data and ticket data **APIs**

## PROJECTS

### CMUEats.com – Tech Lead, CMU ScottyLabs

May 2025 - present

- Leading 5 person development team of CMUEats.com (**React, Typescript, CSS, Bun**), a widely used, user-friendly website (**~1000 daily users**) for Carnegie Mellon students to obtain dining information

### AgrID

Jan 2023 - April 2023

- Developed mobile app (**React Native, JavaScript, Firebase, Teachable Machine, Expo, Open Weather API**) to identify diseased crops using an image classification ML model | **TechnovationMN Winner**

## SKILLS

Typescript, Javascript, Java, Python, React/React Native, C, x86-64 Assembly, GNU Debugger, Git, DevOps, APIs, HTML, Ruby, CSS, SML, LLMs, RAG, Jira, Expo, Figma, CI/CD, SQL, Prompt Engineering, Statistics, Prototyping, Communication, Teamwork, Leadership, Organization