Eunice Lee

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EDUCATION

Carnegie Mellon University *May 2025*

B.S., Electrical and Computer Engineering, Software Systems | GPA: 3.66

Relevant Courses: Distributed Systems (**C**, **Java**); Web App Development (**HTML**/**CSS**, **JS**, **Python**); Computer Systems (**C**); Imperative Programming (**C**); Fundamentals of Programming (**Python**); Digital Systems (**System Verilog**)

EXPERIENCE

Software Engineer Intern *Lutron Electronics* *May 2024 - Present*

- Implemented multi-floor search feature for a building design application using **C#**, **XAML**, and **.NET**, enabling users to efficiently locate objects across all building levels
- Enhanced search functionality through expanding keywords by **200%,** optimizing search speed by **25%**, and reducing user clicks to complete searches by **33%**
- Conducted user research with **40+** participants, resulting in **user-centered** interface with intuitive search bar

Research Assistant *CHIMPS Lab* *January 2024 – May 2024*

- Built WeAudit Ouroboros, displaying distributions of identified bias in generative AI images given a prompt string
- Developed responsive web components using **HTML**, **CSS**, **JavaScript**, and **React** to increase user retention
- Engineered negative prompts to generate clear, realistic images using Replicate

Software Engineer Intern *Lockheed Martin* *June 2023 – August 2023*

- Isolated NASA's WorldWind map in GUI without disrupting backend processes in **Java**, utilizing **Swing** library
- Created interactive **bash** scripts for comparing CPU processes on different nodes to load balance users and automate sourcing and building user application, improving build speed by **5%**
- Supported integration and test for Modeling and Simulation team for SPY-7 Radar control interface

Automation Intern *Ecotone Renewables* *May 2022 – December 2022*

- Prototyped and implemented automatic fertilizer output tap using **Arduino** Uno, HC06 Module, and **C**
- Produced circuits to measure flow and volume of output pipe utilizing solenoid valves and sensors

PROJECTS

stWRAPPED | HTML/CSS/JS, Python

- Created full stack web application that socially boosts running, inspired by the Myers-Briggs Type Indicator utilizing **Strava API** and **Google Maps API**, deployed via **EC2** and **Apache**
- Connected app with Strava **OAuth** and developed backend summary features using **Django** and **AJAX**
- Ideated characters, designs, and animations with Figma to create wireframes; implemented with **Bootstrap 5**

File-Caching Proxy | Java

- Designed whole-file **LRU caching** protocol using check-on-use strategy, establishing open-close session semantics with **concurrent clients** and **concurrent file access using Java RMI and threading**

Group Photo Collage | Java

- Programmed system that concurrently generates/publishes group collages assembled from multiple images contributed by multiple individuals using **two-phase commit** and **write-ahead logging**

SKILLS

Languages: C, C#, Java, Python, HTML/CSS, XAML, JavaScript, Bash, SystemVerilog

Frameworks/Tools: .NET, Django, React, Bootstrap 5, AWS, Linux, Git, Vim, Github, Arduino, Figma