

Amit Kumar-Hermosillo

Computer Engineering Student



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EDUCATION

OLIN COLLEGE OF ENGINEERING | BACHELOR OF SCIENCE IN ENGINEERING WITH COMPUTING

Sep 2021 - May 2025 | Needham, Massachusetts

- Recipient of 50% Olin Merit Scholarship
- Relevant Coursework: Data Structures and Algorithms (**Go**), Software Design (**Python**), Data Science (**Python**), Discrete Mathematics, Linear Algebra and Multivariable Calculus

Cum. GPA: 3.8

EXPERIENCE

AMAZON | SOFTWARE DEVELOPMENT ENGINEER PROPEL INTERN

May 2022 – August 2022 | Seattle, WA

- Overhauled inventory compliance tool, allowing company-wide users to search and suppress defective inventory
- Refined UI to add 3 advanced search capabilities and improve inadvertent error protection (**JavaScript/React/Redux**)
- Significantly expanded back-end (**Java**) functionality by adding 3 new granularities of action and persistence
- Deployed as a web application using **AWS** Lambda and API Gateway, with the deployment infrastructure defined using the **AWS CDK** in **TypeScript**

OLIN FORMULA SAE ELECTRIC | LOW VOLTAGE (LV) SYSTEMS LEAD

LV Systems Lead June 2022 - Present | Needham, MA

Test Engineer September 2021 – June 2022

- Lead and mentor LV systems team in charge of developing hardware (**KiCAD**) and firmware (**C**) for core LV & vehicle safety features, including dashboard, throttle, and brake systems
- Revamped software stack for custom Hardware-in-the-Loop testing suite, cutting testing time by over 30% (**Python**).
- Designed, developed, and integrated graphical controller-area-network (**CAN**) dashboard in **Python** to make vehicle debugging and logging processes accessible to over 50 team members

CYBER DEFENSE LABS | VOLUNTEER INSTRUCTOR

May 2019 - July 2019 | Richardson, TX

- Instructed 50 high schoolers per day over 6 weeks in topics including virtualization, networking fundamentals and configuration (**Packet Tracer**), Group Policy/Active Directory, Linux server configuration, and digital forensics

PROJECTS

PYSMASH | TEAM MEMBER

- Developed a **Python** clone of the Super Smash Bros platform fighting video game playable over wireless multiplayer
- Led the wireless multiplayer development using asynchronous programming, sockets, and a custom message protocol

SKILLS

Software Python • C • Java • Javascript/Typescript • MATLAB • Go • React • Node.js • Redux • Numpy/Pandas

Tools/Platforms AWS • Linux • Git/Github • PCB Design (KiCAD) • \LaTeX • Markdown

Languages Spanish • Mandarin Chinese • Tamil

Mechanical/Fabrication Solidworks • 3D Printing • Laser Cutting • Lathe • Mill • Shopbot

EXTRACURRICULARS

OLIN MIX AND LATINX ORGANIZATIONS

- Belong to two campus organizations that support first generation students and students of color through campus speakers and conference attendance

CONSIDER THIS PODCAST

- Wrote, recorded, edited, and marketed Consider This podcast – over 900 listeners in 36 states and 23 countries

CAPTAIN OF OLIN ULTIMATE FRISBEE TEAM