ERAM RAHMAN

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https://eramrahman2831.github.io/portfolio/

EDUCATION
Expected Graduation: 2027

Bachelor: University of California San Diego (In Progress)

Major: Computer Engineering

Relevant Classes: DSA (Data structures and Algorithms, Software Engineering, Digital Systems, Data Science

SKILLS

Programming Languages:

- Python, C++, C, Assembly (ARM), HTML, CSS, Java, JavaScript, MATLAB

Web and Application Development:

- Front-End Development (React, HTML, CSS), Back-End Development (Next.js), API Integration, Git+Github, Figma, PostgreSQL

Other Skills:

- Custom PC Assembly & System Integration, Hardware Diagnostics & Troubleshooting, Technical Consulting, Small Business Ownership & Operations, Altium Design

EXPERIENCE
April 2019 - Present

PC Technician and Owner

- Managed and assisted 100+ customers with PC purchases, repairs, and upgrades
- Built and troubleshot custom PCs for gaming, school, and work
- Provided technical support and hardware recommendations

Tri Meadows Healthcare

- Provided on-site and remote technical support for staff and community members, troubleshooting hardware, software, and network issues
- Assisted users with operating systems, application installs, account access, and basic cybersecurity best practices

PROJECTS

STACKED Computer Shop Website

- PC Store Website is a web platform built to help manage and support 100+ customers, including people looking to buy a PC and others who need help with troubleshooting, upgrades, and recommendations. The site makes it easier to interact with customers and guide them through buying and maintaining their PCs.

Voice Controlled Navigation System

- A mobile-friendly web navigation app built with Mapbox that provides turn-by-turn directions, live GPS tracking, and voice guidance. It supports voice commands, dynamic routing with stops, and an adaptive UI optimized for both desktop and mobile devices.

CURRENT PROJECTS

PC Recommender Website

- Designed and developing a web application that guides users through a questionnaire to recommend suitable PC builds and pre-built systems based on budget, use case, and performance needs.

RC Car Drive Assist

- Developing a vision-based drive-assist system that processes camera input to guide RC vehicle movement and assist driving decisions in real time.

Leadership

- Fundraising Chair for ALM (Alpha Beta Mu)
  - Planned and executed fundraising initiatives that raised funds for both fraternity activities and charitable organizations serving individuals in need.
- Leadership for local mosque
  - Planned and executed large-scale community events at the masjid, regularly serving hundreds of attendees.

Clubs

- UAS (Unmanned Aircraft System)
  - Electrical subteam member on the UAS Power Board team, designing and analyzing power electronics schematics and layouts in Altium Designer for flight-critical systems.
- ColorStack
  - Member of ColorStack at UC San Diego, a national nonprofit supporting Black and Latinx students in computer science through technical development, career preparation, and peer mentorship.