

Ayush Praharaj

Email : ayushprjaharaj@gmail.com

Linkedin: www.linkedin.com/in/ayush-praharaj

Number: +1-847-532-1056

EDUCATION

- Purdue University** May 2024
Bachelor of Science in Computer Engineering
Minors in Business Economics and Mathematics Cumulative GPA: 3.96

EXPERIENCE

- Bain & Company** May 2023 - Present
Associate Consulting Intern
 - Case Team:** Worked on a case team with senior consultants to help a leading private equity firm evaluate a potential acquisition
 - Market Research:** Conducted primary and secondary research on the target company's products, markets, customers, and competitors using surveys, interviews, and web sources.
 - Data Analysis:** Performed financial modeling to value the target company and identify key drivers and risks for the client.
- Siemens AG** July 2022 - September 2022
Software Engineering Intern
 - Product Research:** Analyzed finite element analysis methods and simulation parameters to identify processor and memory intensive parameters. Surveyed prior research on emission approximation models.
 - Backend Development:** Developed and verified prediction models to approximate carbon emissions produced by any given simulation with up to 90% accuracy on *Python*.
 - Frontend Development:** Designed and implemented the user interface of a proof of concept using *Streamlit*.
- Tensor Flow Model Garden** January 2022 - Present
Undergraduate Researcher
 - Image Recognition:** Built and tested small neural networks on *TensorFlow* to identify images of human hands with 93% accuracy.
 - Neural Network Replication:** Reproduced and benchmarked experimental neural networks such as YOLOx-Tiny and MaskFormer for Google's Tensor Flow Model Garden.
 - Model Optimization:** Enhanced neural network performance by 4% by optimizing model backbones and hyper-parameters.

PROJECTS

- Module Registry Project**
Product Manager and Developer
 - Developed and deployed the backend, the REST APIs, and the frontend of the application using *Go*, *Firestore*, and *React* on *Google Cloud Platform* along with *Continuous Integration and Deployment*.
 - Executed sprints using Agile methodologies, managing risks and incorporating feedback to ensure customer satisfaction.
- Microcontroller Arcade Game**
Project Lead
 - Led a 4 person engineering team to develop an arcade style game using a microcontroller and various peripherals.
 - Developed the game logic in *Embedded C*, designed the circuit schematic, and helped manufacture a PCB.
- Community Garden**
Design Lead
 - Led a team to develop a machine learning-based image recognition mobile app using *TensorFlow* and *Android Studios*.
 - Collaborated with Colombian partners to gather requirements and validate prototypes.

LEADERSHIP AND INVOLVEMENT

- Kappa Delta Rho Fraternity [Diversity & Inclusion Chair]:** Collaborate with other chair members to implement new policies, organize various professional development workshops, and provide mental-health and academic support to members.
- APO Community Service Organization [Treasurer]:** Facilitate various fundraisers and charity drives, raising upwards of \$10,000 worth of donations a semester.
- ECE 20875 Instruction Team [Senior Teaching Assistant]:** Help students understand data analysis techniques, provide project feedback, and write testing scripts.

SKILLS AND AWARDS

- Languages:** Python, C, Embedded C, C++, GO JavaScript, Verilog, SQL, Assembly, HTML, CSS, Bash
- Tools/Frameworks:** NodeJS, ExpressJS, Flask, Docker, Git, GCP, MatLab, Multithreading, CI/CD, TensorFlow
- Honors:** Fall 2020, Spring 2021, Fall 2021, Spring 2022, Fall 2022 Dean's List and Semester Honors
- Scholarships:** PURCE Economic Scholarship, EXPO Industrial Scholarship, John C Carl Memorial Scholarship