

Ayush Praharaj

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EDUCATION

PURDUE UNIVERSITY

West Lafayette, IN

Bachelor of Science in Computer Engineering

May 2024

- GPA: 3.96/4.00
- Fall 2020 - Spring 2023 Dean's List and Semester Honors
- Minors in Business Economics and Mathematics
- PURCE Economic Scholar, Commerford B. Martin Engineering Scholar, Charles W. Brown ECE Scholar

EXPERIENCE

- **INTUITIVE SURGICAL** Raleigh, NC
Embedded Software Engineering Intern Sept 2023 - Dec 2023
 - Streamlined data architecture of the surgical robot system by working across teams to alleviate bottleneck, cutting down worst-case firmware boot time by 85%.
 - Developed automated user-interface validation tools, speeding up the manual testing process by 30%. Accelerated product expansion to different countries by implementing these tools while testing user-interfaces translated into foreign languages.
 - Created a timer functionality, allowing developers to efficiently assess the performance of various system components.
 - Automated release note communications between teams to increase process efficiency by 60% and eliminate human error.
- **BAIN & COMPANY** San Francisco, CA
Associate Consultant Intern June 2023 - Aug 2023
 - Conducted comprehensive analysis of emerging market competition and its impact on a target in the digital physical therapy space by congregating a variety of data sources, allowing an investor to make an informed decision on \$6B+ acquisition.
 - Evaluated clients risks and opportunities in regards to Artificial Intelligence, identifying a possible 20% productivity boost along with possible loss in revenue due to changed pricing strategy.
 - Performed financial modeling and scenario analysis to accurately project revenue for a target, identifying key risks and drivers for a client considering a \$1B+ acquisition.
 - Examined the bankruptcy of a target company in the retail space, assessing the drawbacks of the business model and possible paths to profitability.
- **SIEMENS AG** Bangalore, India
Software Engineering Intern July 2022 - Sept 2022
 - Worked on a green initiative team, conducted detailed analysis of physics simulations to determine key parameters contributing to 30% of the carbon emissions produced by the process.
 - Created and tested a prediction model that estimated carbon emissions produced by various simulations with 88% accuracy as first part of a cross team project to measure and reduce emissions.
 - Built a user-interface to allow other teams to access the prediction model and measure their carbon emissions.
- **PURDUE UNIVERSITY** West Lafayette, IN
Undergraduate Teaching Assistant Aug 2021 - Current
 - Educated students on how to utilize Python to perform data science tasks such as data visualization and analysis using real-world data sets and applications.
 - Collaborated with other instructors to design engaging assignments for students of different skill levels.

PROJECTS

- **TENSOR FLOW MODEL GARDEN**
Machine Learning Researcher
 - Built image recognition model able to identify various features of a human hand with 93% accuracy.
 - Released ready-to-use object detection model capable of working on mobile phones to a community of 80,000 developer.
- **COMMUNITY GARDEN**
Project Design Lead
 - Led team to develop a mobile application that uses image recognition to educate the children in a town of 30,000 people in Colombia on the nutritional and medicinal values of local plants found in a communal garden.

LEADERSHIP AND INVOLVEMENT

- **ALPHA PHI OMEGA COMMUNITY SERVICE ORGANIZATION**
President
 - Oversaw service program that enabled organization to hit 1800 total community service hours over a semester.
 - Introduced a \$500 scholarship awarded to local high-school student that embodies the principles of the organization.
- **KAPPA DELTA RHO FRATERNITY**
Vice President
 - Spearheaded push to provide additional mental-health and academic support, leveraging university resources as well as introducing internal programs to help 25 of the members.
 - Facilitated fundraisers and charity drives, raising upwards of \$5,000 to support various non-profit organizations.