

AARUSHI SHAH

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<https://aarushishah.github.io/>

TECHNOLOGY SKILLS

Languages: (Proficient) Java, C++, C#, Python, HTML & CSS, Swift

Frameworks and Tools: ReactJS, Angular, NodeJS, gRPC, PyBullet, OpenAIGym, Matlab, Figma, Sketch

EDUCATION

University of California, San Diego – Class of 2022

BS in Computer Science (Jacob's School of Engineering), Minor in Business - 3.99 GPA - Provost Honors

Coursework & Certifications:

- AZ-900: Azure Fundamentals
- Design & Analysis of Algorithms
- Advanced Data Structures
- Data Science in Practice
- Introduction to CS Research
- Product Management

Organizations:

- Women in Computing
- Technovation
- IEEE

EXPERIENCE

Microsoft - Redmond, Seattle

June 2020 – Sept 2020

Software Engineering Intern, Azure Compute

- Developed and deployed an RPC Framework using gRPC to engage/disengage power throttling of individual servers in datacenter. Used C# (Client) and C++ (Server).
- Framework executes RPC calls on thousands of servers within 5 seconds, enhancing Power Capping reaction time and durability.
- Performed scale testing and created performance metric dashboards to display results including network latency and execution time.
- Gained experience with TCP/IP networking, distributed systems, and multithreading programming.

ChargePoint - Campbell, California

June 2019 – Sept 2019

Software Engineering Intern, Web Team

- Responsible for localization improvements in Cloud (NOS) using AngularJS and PHP codebase.
- Gained experience working with Docker, QA Testing, Chrome Debugger and Visual Studio Code.
- Collaborated within an Agile team structure. Worked with senior-level developers/mentors on major changes to allow portal to be ready for internationalization.
- Helped develop localization tooling to detect code that would break localization process.

PROJECTS

Undergraduate Researcher – Humanoid Control Design, Advisor: Professor Sicun Gao

- Researched the simulation-to-real transfer problem when designing control methods for bipedal robot walking.
- Created a simulation environment to train bipedal robots using RL algorithms. Utilized PyBullet and OpenAIGym.
- Designed bipedal robot using URDF files. Implemented Proximal Policy Optimization algorithm and designed reward functions in Python.

Triton Exchange – Online Marketplace for UCSD Students

- Designed and deployed front-end of application using ReactJS, Typescript, and Bootstrap.
- Implemented REST APIs to fetch data from database and built reusable React components to dynamically render data.
- Created detailed designs and wireframes using Figma and led team to translate into high quality code.

“Hey Twitter” – 2nd Place #BattleOfTheCamps

- Won 2nd Place in hackathon hosted by Twitter for creating a speech recognition chat assistant named “Hey Twitter”.
- Utilized Twitter API and Google Cloud Speech API in Python extensively. Created web application to host chat assistant with ReactJS and Flask.

ACHIEVEMENTS

Twitter #DevelopHER – June 2020

- One of 40 students selected to attend 2-day program focused on professional and technical development including resume writing, coding skills, and networking.

Beginner's Programming Competition at UCSD – April 2019

- Successfully completed HackerRank algorithm challenges in Java and placed Top 6 amongst 100+ programmers.