

Work Experience

- SDE Intern** [Amazon](#) [GitHub](#) | Jun 2021 - Sep 2021
- Designed and lead the development of a **Python** testing framework for **OpenSearch's** (Amazon Elasticsearch) **k-NN** plugin
 - Automated** the benchmarking and detection of performance regressions in the plugin's **CI/CD** workflow, preventing potential production bugs and enabling faster/robust development
 - Leveraged **OO** and strong abstractions to maintain simplicity and extensibility while efficiently processing millions of documents per test
 - Utilized **Docker/Compose** for test isolation and automated deployment; **EC2** instances for scalability
- Lead Front End Developer** [Hollr Technologies](#) Summer 2020 - Present
- Developed **Chrome extension** at a startup facilitating users in streamlining the sharing of products with others such as Amazon, Netflix, Youtube
 - Used **React TypeScript** on the frontend and **Firebase/Firestore** to manage user settings and endorsements
- Front End Developer** [ACM UCSD](#) Fall 2020 - Present
- Helped maintain membership portal with **React TypeScript** for over 1000+ users
 - Collaborated in a **Agile** team of 7 with ACM Design and backend engineers to rapidly prototype and deploy nightly

Projects

- Path Maze Visualizer** [Website](#) | [GitHub](#) | Summer 2020
- Built **React** application to visualize different pathfinding and maze generation algorithms
 - Implemented 10 different algorithms, including **Dijkstra**, A* Search, Kruskal, Prim, etc.
 - Utilized in a class of **100+** to help learn and build intuition on algorithms
- Todo List** [Website](#) | [GitHub](#) | Spring 2020
- Built **full stack** web app for storing and managing todos with user authentication and a **RESTful** Todo API
 - Used **React** on the frontend with an emphasis on **Material Design** (Material-UI)
 - Used **Node.js / Express** for API requests and **MongoDB** for persisting data
- Generals.io Bot** [GitHub](#) | Summer 2020
- Built **Node.js** bot to play Generals.io, a fast-paced multiplayer strategy game
 - Became the **number one** ranked bot in the 2020 season in 3 weeks

Education

- University of California, San Diego** La Jolla, CA Sep 2019 - Expected Jun 2023
- B.S. Computer Science | GPA: **3.9** | Tau Beta Pi
 - Relevant Coursework: Software Engineering, Advanced Data Structures, Design & Analysis of Algorithms, Theory of Computation, Computer Organization & Systems Programming

Honors

National Merit Finalist • Warren Honor Society • National AP Scholar

Technical Skills

Languages: TypeScript/JavaScript • Python • C/C++ • Java • HTML5/CSS3 • Haskell • Bash • SQL
Tools: AWS • Docker • Firebase • Git • Vim • Linux
Frameworks: React.js • Node.js • MongoDB • Qt