

## Work Experience

- Front End Engineer Intern** [Meta](#) Jun 2022 - Sep 2022
- Designed an **E2E** logging solution to precisely measure performance bottlenecks in UI requests
  - Reduced network request sizes by **80%**, by redesigning the Node **GraphQL schema**
  - Decreased page load times by **75%** by **leading the migration** to a new routing framework
  - Discovered and addressed existing performance issues in React components, improving load times and page **interactivity**
  - Created a custom testing framework with a JSON deserializer to **automate** GraphQL object assertions
- 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](#) Aug 2020 - Feb 2022
- 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

## 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

## 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, Algorithms, Programming Languages, Computer Vision, Machine Learning, Search and Reasoning

## Honors

National Merit Finalist • Warren Honor Society • National AP Scholar

## Technical Skills

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