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Sean Ye

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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 the **OpenSearch** (Amazon Elasticsearch) **k-NN** plugin
- **Automated** the benchmarking and detection of performance regressions in the plugins **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 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

QBHub Website | GitHub

- Developed a mobile-first, full-stack **React** application for interactive question reading with automated judging and scorekeeping
- Designed an extensible **REST** API and PostgreSQL ORM to process over 1.5K requests per day
- Automated usual studying patterns by scoring **n-gram** tokenized question clues by relevance with **tf-idf**

Path Maze Visualizer Website | GitHub

- Visualized complex pathfinding and minimum spanning tree algorithms with an interactive **React** app
- Implemented 10 different algorithms including **Dijkstra**, A*, Kruskal for search and maze generation
- Utilized by **100+** students to help conceptualize and build intuition on topics in an accessible manner

Education

University of California, San Diego La Jolla, CA Sep 2019 - Expected Jun 2023

- B.S. Computer Science, GPA: **3.9**, ACM, 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 • Hack • HTML5/CSS3 • Haskell • SQL • Bash
Tools: GraphQL • AWS • Docker • Firebase • Git • Vim • Linux
Frameworks: React.js • Node.js • Relay • PostgreSQL • MongoDB • Jest