

Eric Shaoan Liu

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Wonder-driven learner seeking a challenging SWE position in platform or applications.

Education

University of California, Berkeley Expected 2021

EECS Master of Engineering, Systems and Data Science

Research: Dynamic Deadline Scheduler for Autonomous Systems, Efficient LiDAR Calculations on Dynamically Defined Systems

Notable Coursework: Advanced Topics in Computer Systems, Applications of Parallel Computers

University of California, San Diego (Cum Laude)

Double Major: B.S. Computer Science (3.98), B.S. Cognitive Science-HCI

Notable Coursework: AI Algorithms, Databases, OSes, Computer Security, IoT Programming

Experience

BrainOS Software Engineer Intern, Brain Corporation May 2020 - Aug 2020

- Worked on platform team implementing deterministic replay in autonomous robots
- Designed and implemented Python and C++ tooling to process robot data streams (50GB+)

Undergraduate Research Intern, UCSD (Bill Griswold, PhD) Jun 2019 - Mar 2020

- First author on novel paper investigating Software Engineering practices in Data Science
- Used Python to automate the search for, and analysis of, analytical notebooks
- Providing the foundation to support refactoring tool development to improve DS efficiency

Software Developer Intern, Perspectium Mar 2019 - Feb 2020

- Built service integration and management applications in Java and JavaScript
- Implemented unidirectional data integration between ServiceNow and Splunk

Course Tutor, UCSD: Design and Analysis of CS Algorithms Sept 2018 - Dec 2018

Course Assistant, UCSD: Neuroanatomy and Statistics Courses Apr 2017 - Sept 2018

Projects

(Graduate Capstone) ML-Aided Programming 2020 - 2021

- Assembled first curated NL --> PyTorch dataset from multiple sources with 65k+ pairings
- Fine tuning various code generation models to establish baselines for framework generation

The Iota Network, Web Application 2020

- Created alumni networking application using Firebase, HTML, CSS, and Javascript
- Currently deployed POC application to alpha testers

MicroCli-Mate, IoT Application 2019

- Built stack of webapp (MySQL, Node.js, HTML, CSS, JS) to show UCSD microclimate trends

Skills

Professional: C++, Python, Java, Javascript

Familiar: C, CUDA, HTML, CSS, Rust

Tools: Git, TravisCI/Jenkins, Jira, RabbitMQ

Awards & Honors

Facebook Puzzle Hunt 2019 Winner

- Placed 2nd out of 73 teams @ UCSD

Eagle Scout - Silver Palm Award