

SHAOLONG LI

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Education

University of California, San Diego

September 2023 – May 2025

Master of Science in Computer Science

GPA: 3.74

University of California, San Diego

September 2019 – March 2023

Bachelor of Science in Cognitive Science(w/Machine Learning), Computer Science Minor GPA: 3.86/Major 3.97/Minor 3.9

Experience

Dassault Systèmes

June 2025 – Present

Software Engineer - Test Automation

San Diego, CA

- Configured **Geb** framework with **Spock**, **Gradle**, and **Selenium** to automate UI testing for the Biovia Machine Learning Workbench project, significantly increasing test coverage and efficiency. Proactively maintained and updated outdated test cases to support secure and timely product delivery.
- Implemented 50+ reusable Geb pages and modules in **Groovy** to encapsulate frequently used UI components, enhancing test automation scalability and improving framework maintainability.
- Developed and maintained **CI/CD** pipelines using **Jenkins** and **GitLab** CI, enabling automated test execution on code commits and accelerating the release cycle.

METY Tech

June 2024 – September 2024

Software Engineer

San Diego, CA

- Designed and implemented a referral-based discount system, designed database structures and backend logic for promo code validation, discount application, and influencer payment tracking.
- Optimized the **Django** back-end API services for user health plan functionality, reducing API call response time and improving platform efficiency by 30%, while fixing various front-end issues with **React** to enhance **UI/UX**.

UCSD TripleC

February 2023 – December 2023

Software Engineer

San Diego, CA

- Developed and tested back-end **RESTful** API services using the **Spring** Framework, integrating unit testing with **JUnit** and Mockito to ensure robustness and reliability of API functionalities
- Implemented JWT-based authentication for the mobile app using **Spring Security** with Auth0's SDK, enhancing user data security and enabling seamless sign-ins without repeated credential entry.

UC San Diego Jacobs School of Engineering

January 2022 – March 2023

Instructional Assistant

San Diego, CA

- Worked with other IAs to develop a framework for teaching the implementation of **advanced data structures** using **C++**. Held weekly lab hours, dedicating **25** hours per week, to help students with their programming assignments.
- Participated in lectures to support the instruction of **Unsupervised Machine Learning Algorithms**. Graded homework, and conducted weekly discussion to aid students in comprehending complex concepts presented in lectures.

Projects

BlogApp | *React, Node.js, Express.js, MongoDB, Redux, Redis, Docker*

- Designed and implemented a **RESTful API** service using **Node.js** and **Express.js** to handle **CRUD** operations on a **MongoDB** database.
- Developed dynamic webpages with **React**, **Tailwind CSS**, and **Flowbite**, enabling users to publish, modify, like, and comment on posts. Created a comprehensive admin dashboard for monitoring blog activity and managing posts, comments, and user accounts.
- Integrated secure authentication with **JWT** and **Google OAuth** for seamless signup and login. Utilized **Redux Toolkit** for efficient state management and **Firebase** for image hosting.
- Containerized the application using **Docker** to ensure consistent environment configurations, and simplify deployment across different platforms.

Custom Autodiff Framework | *Python, Scikit-learn, Transformer, ML System*

- Developed a custom Automatic Differentiation framework from scratch in **Python**. Implemented core operators in a fused fashion to optimize both forward pass computations and backward pass gradient calculations.
- Leveraged the custom Automatic Differentiation library to implement and train a **Transformer** model using the MNIST dataset, achieving an **87%** test accuracy.

Technical Skills

Languages: Python, Java/Groovy, C++, HTML/CSS, JavaScript, SQL, GraphQL, Haskell, Golang

Database: Relational(MySQL, PostgreSQL), NoSQL(MongoDB)

Frameworks: Django, Spring Boot, React.js, Redux, Recoil, Node.js, Express.js, Vue.js, Nest.js, Tailwind CSS, Geb/Spock