

# JIADI LUO

tianluo0708@gmail.com | 669-388-1095 | San Jose, CA, United States

 [linkedin.com/in/jiadil1010](https://www.linkedin.com/in/jiadil1010)  [github.com/jiadil](https://github.com/jiadil)  [jiadil.github.io/portfolio](https://jiadil.github.io/portfolio)

## Education

Northeastern University | San Jose, CA, United States

Sep 2024 – May 2026 (Expected)

Master of Science in Computer Science

Simon Fraser University | Burnaby, BC, Canada

Sep 2020 – Apr 2024

Bachelor of Science in Computer Science

GPA: 3.82

Relevant Courses: Data Structures/Algorithm, Operating System, Database System, AI, Computer Networks, OOP

## Experience

7Sage

Vancouver, BC, Canada

Backend Software Engineer

May 2023 – Apr 2024

- Developed and maintained a **role-based access control** responsive LSAT prep website for **200,000+ users** using **MySQL, Docker, PHP, and Apache**
- Enhanced **MySQL query** performance through composite indexing, query restructuring, and application-level caching with **Redis**, leveraging **AWS RDS** cloud-hosted databases
- Implemented a purchase confirmation email system with customizable templates, leveraging **POST requests** within **Docker** for local testing and using **SMTP** for secure email delivery in production
- Launched a platform for tutors to schedule and post live classes with localized time displays for users, using the **Zoom API** and **DateTime** object, boosting revenue **by 15%**
- Utilized **CI/CD pipelines**, ensuring seamless deployment and code quality, with **Jenkins** as a supporting tool

Frontend Software Engineer Intern

Sep 2022 – Apr 2023

- Enhanced front-end UI and UX by improving **40+** features utilizing **JavaScript, React, Redux, jQuery, HTML, CSS, and SASS**, leading to increased user engagement
- Developed the core live classes service on the 7Sage events page, utilizing the **TEC** plugin for scheduling and featuring responsive layouts with increased custom animations, resulting in a **10%** increase in monthly active users
- Integrated a dynamic LSAT practice set generator to enhance learning experiences with real-time difficulty adjustments and interactive feedback, using **Vue.js** and **async data fetching**

Simon Fraser University | ixLab


Burnaby, BC, Canada

Research Assistant | Advised by Dr. Lawrence Kim


May 2023 – Aug 2024

- Led in-person HCI lab studies and conducted **usability testing** to explore the influence of anthropomorphism, robot quantity, and motion patterns on human cognition and emotion, presented at CHI '24 conference in Honolulu, Hawaii
- Programmed NAO and Sony Toio robots to execute interactive behaviors using **Choregraphe** and **C# Unity scripts**
- Developed innovative **AR-based** and **DR-based** solutions to address the fear of public speaking via **HoloLens2**

## Projects

Web-based LMS  | **Node.js, Database, API Dev, Scalable Single Page Application (SPA)** Sep - Dec 2024

- Developed a full-stack web app with a canvas-like interface, schema design, and user features like creating and deleting courses, using **HTML/CSS, React.js, Redux, Bootstrap, and Node.js, Express, MongoDB**
- Architected a **scalable SPA** with user authentication, cross-browser compatibility, and **RESTful APIs** integration (**Napster, GPT**), using **Postman** for API testing and monitoring

myChannels  | **C, Linux, Multi-threading, Scheduling, Operation System**

Apr - Jul 2023

- Built a Linux OS from scratch, featuring a Kernel, Memory Management, and interactive shell
- Kernel:** Managed process life cycles through safe concurrent thread processing using the pthread library
- Memory Management:** Implemented dynamic memory allocation and synchronization for efficient resource handling
- Interactive Shell:** Supported built-in commands like ls and configurable options for buffer size and thread count

## Publications

- J. Luo, V. Domova, & L. Kim.** 2024. *CHI '24*. Impact of Multi-Robot Presence and Anthropomorphism on Human
- S. Pulatova, J. Luo, et al.** 2023. *UIST '24*. Exploring Programmable Actuated Fidgeting with Swarm Robots

## Technical Skills

**Languages:** Java, JavaScript, C++, C, C#, Python, HTML/CSS, SASS, SQL, PHP, Rust, Haskell, TypeScript, Bash  
**Tools and Frameworks:** Git, IntelliJ, VSCode, MySQL, Node.js, Dropbox, XAMPP, MongoDB, Postman, SPSS, GitHub, Docker, WordPress, React, jQuery, Bootstrap, Unity, Figma, R, Matlab, Express.js, JUnit, AWS, A/B Testing, Jira, Redux