

NURRACHMAN LIU

Redwood Shores, California

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🌀 [rliu-swe](https://github.com/rliu-swe)

🌀 [rliu-swe/code](https://github.com/rliu-swe/code)

FULL EXPERIENCE

IXL Learning

03-2014 – 06-2018

Full-Stack Infrastructure Software Engineer (2.5y) | Java, JavaScript, SQL, Redis, Node.js, Kafka, Docker

Foster City, CA

- Design high-performance back-end infrastructure (Java, Node.js)
- High-performance streaming systems (100k messages/second) (Kafka, Redis, Java, Node.js, Docker, Socket.io)
- Production log infrastructure (100's prod servers, TBs/day prod data) (Java, AWS)
- Telemetry front-end app for core-infra (React, Flux, Node.js, JavaScript, AJAX, Material Design)
- Customized SFTP server for customer data sync (Node.js, Docker, AWS)

Full-Stack Software Engineer (2y) | Java, JavaScript, SQL, React, JDBC

- Java backend design, data-model design. (Java, SQL, Hibernate, Struts)
- High-performance database controllers, query optimization, db tuning (Java, JDBC, SQL, Query Optimization)
- Front-end design (React, JavaScript, AJAX)

Qualcomm Research

06-2011 – 08-2012

Senior Research Engineer

San Diego, CA

- Custom digital integrated circuit design and VLSI design for ultra low-power near- V_{th} circuits/CPU. **Taped-out in 28nm.**

VLSI Design Automation Lab

09-2006 – 05-2011

Ph.D. Student Researcher

Ann Arbor, MI

- VLSI & custom IC design for variation mitigation; ultra low power sub- V_{th} design. **Taped-out in {180, 130, 90, 65, 45}nm.**