

NURRACHMAN LIU

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FULL EXPERIENCE

IXL Learning

03-2014 – 06-2018

Backend Software Engineer, Core Infrastructure (2.5y) | Java, JavaScript, SQL, Redis, Node.js, Kafka, Docker

Foster City, CA

- Work on high-performance back-end infrastructure (Java, SQL, Node.js)
- Back-end job queue service (Java, SQL)
- 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 S3)
- 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

- Integrated circuit designer in custom digital and VLSI ASIC design for ultra low-power & low-voltage near-threshold circuits and CPU.
- Software & scripting development for near-threshold circuit design and characterization.
- **Taped-out in 28nm.**

VLSI Design Automation Lab

09-2006 – 05-2011

Ph.D. Student Researcher

Ann Arbor, MI

- VLSI and custom digital integrated circuit design for on-chip variation sensing, tuning, and mitigation.
- Ultra low power design in sub and near threshold.
- VLSI tool design and automation.
- **Taped-out in {180, 130, 90, 65, 45}nm.**