

# Ziliang Zhang

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## Objective

Seeking a Part-time/Internship Position in Full-Stack Software Development Engineering Position

## Education

### Doctor of Philosophy (On-Going), Electrical and Computer Engineering

University of California, Riverside

Sep 2022 - Present

### Master of Science, Computer Engineering

University of California, Riverside

Sep 2019 - Mar 2021

### Bachelor of Science, Cognitive Science with Specialization in Human-Computer Interaction

University of California, San Diego

Aug 2015 - Mar 2019

## Work Experience

### Full-Stack Software Development Engineer @ Verizon

Feb 2022 - Sep 2022

- Developed and Maintained **RESTful API** in **Spring Framework** and **Maven** Project, with **AWS** and **Apache Kafka**
- Worked on **Angular**, **Typescript**, **HTML/CSS/Javascript**, **Node.js** Frontend Module and connected to backend
- Experienced in **Junit**, **Jenkins**, **Postman** and **JIRA** for Testing, Used **Git**, **Docker** as **CI/CD** process for **TDD**

### Java Full-Stack Developer @ Marlabs, Inc.

Jul 2021 - Feb 2022

- Provided Professional Solutions in developing **SOAP** and **RESTful API**. Clients include Hilton, Vertafore, etc.
- Implemented both **SQL** (MySQL, PostgreSQL) and **NoSQL** (MongoDB, Firebase) database in **ORM** with **Hibernate**
- Understood **SDLC** based on **Agile/Scrum** and **Waterfall** methodologies. Experienced **Pair/Extreme** Programming

### Frontend Designer and Developer @ Bidround System LLC

Jun 2018 - Sep 2018

- Designed UI interface with **Sketch** and **Figma**. Improved UX with **Prototyping**, **A/B Testing** and **Google Analytics**
- Developed Frontend with **Node.js**, **REACT** and **Bootstrap**. Experienced in Swift for IOS development

## Project Experience

### Project OpenRPT @ Extreme Storage & Computer Architecture Laboratory, UC Riverside Sep 2020 - Mar 2021

- Solo Dev **HCI** prototype with **Coral DevBoard** and Wearable Display. Provided **Pose Estimation** and Delivered 720P 30FPS stream feed via selected teleconferencing software. All activity restrained within **1GB RAM** and **TPU**
- Conducted End-to-End Test and Latency Optimization. Used **Bluetooth PAN** to Achieve One-step Operations
- **Tensorflow Lite**, **TPU**, **Bluetooth PAN**, **OpenCV**, **PoseNet**, **UNIX**, **Cython**, **V4L2**, <https://www.escalab.org/>

### "On Construction and Application of High-Definition(HD) Maps" @ UC Riverside

Sep 2020 - Jan 2021

- Co-authored and edited **HD Maps** collections concerning both construction and application. Overviewed topics in Autonomous Driving, Localization, Modeling, Path Planning, Perception and ATVs. Honor & Submitted to SSTD'21

### When2Buy Co-op Smart Shopping List @ UC San Diego

Jan 2018 - Mar 2018

- Developed Webapp sharable shopping list that auto-update items based on habits and routines; UX/Frontend/DB;
- **HTML/CSS/Javascript**, **AJAX**, **Node.js**, **Jquery**, **Sketch**, **Google Analytics**, **Bootstrap**, **REACT**, **Firebase**

## Honors and Awards

- Provost Honor UC San Diego
- Honorable Project awarded by Dr. Amr Magdy, UC Riverside

Fall 2018 / Fall 2016  
Winter 2020

## Technical Skills

**Programming Language:** Java 8/11, Python, C/C++, Shell Script, HTML5/CSS3/Javascript, Swift, Typescript;

**Database:** SQL-MySQL 8.x, PostgreSQL 13 and SQL Server 2019; NoSQL-MongoDB, Firebase;

**Java/J2EE:** Servlets 3.x, JSP 2.x, JDBC, JPA, JMS;

**Diagnostics:** JasperReports 6.x, Google Analytics;

**Frameworks:** Spring MVC 5.x, Spring Boot 2.x, Spring Cloud, Hibernate 5.x, Spring Security, Struts 2.0, kubernetes;

**Cloud Service:** AWS IAM, EC2, S3, Elastic Beanstalk, Load Balancer, DynamoDB, AWS Lambda, CloudWatch;

**Servers:** Apache Tomcat, Glassfish, JBoss, Nginx;

**Testing:** Junit 4/5, Mockito 3, SoapUI 5, Postman;

**Messaging:** Apache Kafka, RabbitMQ, Apache ActiveMQ;

**Frontend:** Jquery, Angular, Node.js, Bootstrap, REACT;

**DS/ML:** Pandas, NumPy, SciPy, Matplotlib, Scikit-learn, Tensorflow, PyTorch, Ray;

**Dev Tools:** GIT, SVN, Docker, VMware, JIRA, Log4j 2.x, Pair/Extreme Programming, Kibana

**Hardware:** SoC, Single Board, CUDA C, Edge TPU, AVX;

**UI/UX:** Figma, Sketch, Adobe Illustrator/InDesign;