

ZHUOWEI ZHANG

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EDUCATION

Syracuse University (GPA: 3.67/4.0)

Master of Science in Computer Science, Master of Science in Computer Engineering

Syracuse, NY
Feb 2021 – Dec 2023 (Anticipated)

University of Southern California

Bachelor of Science in Computer Science

Los Angeles, CA
Aug 2016 – Dec 2020

SOFTWARE DEVELOPMENT EXPERIENCE

JustMove A start-up providing one-stop services for moving and relocations

Software Development Engineer Intern, Los Angeles, CA

Jun – Aug 2020

- Built a fully-fledged widget component embedded into business partners' websites that directly resulted in initial customer acquisitions using React.js and Redux
- Developed UI/UX features for client web portal using React.js, Material-UI, Stripe.js and Google Maps APIs
- Implemented server-side APIs with an Apollo GraphQL server in Javascript
- Conducted to the company's product roadmap brainstorming and contributed to user requirement documents

IDK Technologies A start-up focused on food and restaurant discovery and personalization

Software Development Engineer Intern, Los Angeles, CA

May – Aug 2019

- Participated in designing and engineering of a mobile app's minimal viable product and a testing beta with React Native and APIs including Google Maps, Instagram and Uber. Gained over 3000 downloads with rating of 4.6 out of 5 on the App Store
- Refined and completed the server-side resolvers for client-side app and business-side web portal with node.js, Apollo GraphQL, and React, reduced async request response time by 50%
- Collaborated with the CTO, crafted and maintained an in-house PostgreSQL database and migrated over 3000 data entries

FEATURED PROJECTS

PlayPal

Oct – Dec 2021

A Spring and React.js powered full-stack group events sharing application.

- Lead a team of three, followed OOP design principle and software engineering practices (agile methods and loose coupling)
- Designed and implemented RESTful APIs via Spring Boot MVC, including post creation, searching and event recommendations. Developed with Spring Data Persistence API (Hibernate) and a MySQL database
- Curated MySQL table structures, data association rules (many-to-many, many-to-one, etc.) data structures (hash map, hash set) and object-oriented designs, and optimized location and tag based recommendation methods
- Utilized Firebase for real-time chat features, authentication and authorization, and Mailgun API for email notifications
- Deployed upon Nginx and Apache Tomcat servers and received highest score in the course's final deliverable

ShowUp

May 2022 – Present

A collaborative self-improvement iOS app written in Swift

- Leveraged SwiftUI, UIKit and Model View View-Model pattern to satisfy user requirements such as habit-tracking, posting updates and friend interactions.
- Used Firebase APIs for user authentication and authorization, integrated cloud file storage, a NoSQL database for storing habit and post data. Implemented user push notification features using cloud messaging.

TrojanMingle

Oct – Dec 2018

A full-stack dating web app based on Java and JSP

- Designed and coded front-end UI using HTML and Bootstrap. Constructed backend Java servlets connecting a MySQL database and front-end JSP. Tested HTTP requests through Postman
- Created a real-time notifications module using Java multi-threading and structures including stack, hash map and array
- Collaborated with business side teammates, explained technical concepts, wrote up documentations
- Received a highest overall project score (presentation + technical) as the semester project in class

Robotics At Syracuse University (President)

Oct 2021 – Present

A student organization based at SU, building Underwater Autonomous Vehicle and Vex Robotics.

- Managed resources and communication across sub-teams, spearheaded initiatives for project funding, robot design, building and testing. Lead a team of seven to participate the 2022 RoboSub and 2023 VEX U competitions.
- Lead the software development process by leveraging C++ and Python programming on Odometry, Robotics Operating System, Arduino embedded coding and OpenCV. Developed team's website using React.js and hosted on GitHub Pages

SKILLS

- Programming: C/C++, Swift, Java, HTML, CSS, SQL, JavaScript, Python, Haskell, Node.js, React.js, React Native, MATLAB,
- Tools: Firebase, MySQL, PostgreSQL, AWS, Google Cloud Platform, Heroku, Postman, Docker, GDB, Unit Testing