

ZHUOWEI ZHANG

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SOFTWARE DEVELOPMENT EXPERIENCE

NBCUniversal (ReactJS, Web Development, Unit Testing, Version Control, Agile) *NBC News Group*

Software Engineering Intern, Englewood Cliffs, NJ

Jun – Aug 2023

- Participated in the development and deployment of a novel news delivery segment on the front pages on NBC News.
- Engineered new components and integrated into an internal package using React.js, CSS, Next.js, and unit-testing.
- Collaborate in team settings and communicated with designers, managers, and other developers.
- Debugged and fixed dependency vulnerabilities, layout responsiveness and runtime errors across multiple NBC brands.
- Contributed over 1500+ lines to the client rendering code base, improved user experience for sites with millions of traffic.

JustMove (ReactJS, Apollo GraphQL, Web Development) *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 (ReactNative, Apollo GraphQL, SQL) *A start-up focused on personalized food and restaurant discovery*

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

EDUCATION

Syracuse University (GPA: 3.475/4.0)

Syracuse, NY

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

Feb 2021 – May 2024 (Anticipated)

University of Southern California

Los Angeles, CA

Bachelor of Science in Computer Science

Aug 2016 – Dec 2020

FEATURED PROJECTS

Playpal App (ReactJS, Java, Fullstack Development, MySQL Database, Data Structures, OOP, Cloud)

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 App (Swift, iOS development, Cloud, OOP)

May 2022 – Present

A collaborative self-improvement iOS app written in Swift

- Leveraged SwiftUI, UIKit, Functional Programming and Model View View-Model pattern to satisfy user requirements such as habit-tracking, posting updates and user interactions with maintainable code and achieved an intuitive user experience
- Adopted Firebase APIs for user authentication and authorization, integrated cloud file storage, a NoSQL database for storing habit and user post data. Implemented user push notification features using Cloud Messaging.

Orange Robotics at Syracuse University, President (C++, Python, ReactJS, OOP)

Oct 2021 – Present

Building Underwater Autonomous Vehicle and VexU Robotics

- Managed resources and communication across sub-teams, spearheaded initiatives for project funding, robot design, building and testing. Lead a team of 16 and achieved best rookie in RoboSub 2022 and invitation to VEXU Worlds 2023
- Lead the software team by incorporating 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

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