

John Marshall

Software Engineer

Email: j.j.marshall@hotmail.com

GitHub and LinkedIn: [jjmarsha](#)

Medium: [johnmarshall_17009](#)

Education

University of Southern California

Bachelor of Science in Computer Science

August 2017 – May 2021

Viterbi School of Engineering

Experience

Acclaim Academic Institute

Full-Stack Developer / Part-Time

October 2019 – Present

React.js + TypeScript, Python + Django

- Collaborated with a team of 4 developers to refine the online education experience for students
- Developed a dynamic PDF certificate generator API using Python PDFKit along with Django's html-base, marked-up templating language
- Administered the development of highly reusable, React components in TypeScript to abstract various complex UI logic

Better Inc.

Lead Software Engineer / Architect

May 2020 – Present

React Native + TypeScript, Python + Django, AWS

- Managed a team of 3 other mobile app developers to plan, design, and build a productivity, social media platform
- Designed the structure of the application's software systems and CI/CD pipeline to assemble a scalable project as well as drive an efficient Agile workflow
- Planned and orchestrated the development of the code base architecture using React Native for cross-platform compilation and Django on AWS Elastic Beanstalk to host our core REST API
- Developed pipelines to reduce time and improve efficiency in development operations and workflow

Projects

Momento

Mixed Reality Software Engineer

January 2019 – August 2020

C#, SQL, Unity

- Engineered stories to preserve the memory of loved ones within the enhanced medium of virtual reality
- Developed user-system interactions and raw data streaming of files for a mobile augmented reality WebGL experience

Baby Yoda, Guardian of USC

Software Engineer

March 2021

React.js, Node.js, GCP, C, RaspPi

- Programmed a cute Mandalorian robot with powers of the force aiming to stop bullying on campus grounds
- Integrated Google Speech to Text API to parse out negative keywords and detect verbal abuse, and utilized Google Vision API to scan and discern threats based off a machine learning model

Activities

USC Taiwanese American Organization

Director of Membership + Family Head Coordinator

August 2019 - Present

- Kickstarted the club's most peak year with the recruitment of over 120 new members and hosted events with over 50%-member retention rate as a large public student organization
- Led an analysis team to survey online social events hosted by the club and identify and resolve problems as well as conceive new methods to adapt to the current online social environment

Skills

Languages JavaScript + TypeScript, Python, C++, C#

Frameworks/Libraries React.js + React Native, Django REST, Node.js + Express.js, GraphQL

Database SQL + PostgreSQL, ORM

DevOps Git, AWS, Azure DevOps

Other Linux, VS Code, PyCharm