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Jefferson Ly

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EDUCATION

San Jose State University   *Bachelor of Science in Software Engineering*
Major *GPA: 3.41 / 4.0*   *Aug. 2016 - Dec. 2020*

- Assembly Language Programming
- Computer Org and Architecture
- Data Structures and Algorithms
- Mobile Software Engineering
- Object Oriented Design
- Operating Systems
- Software Process Management
- Enterprise Software Platforms
- Software Quality Testing

EXPERIENCE

Predictive Services (IoT) Software Engineering Intern   *Jun. 2020 – Present*
Carl Zeiss X-Ray Microscopy   *Remote | Pleasanton, CA*
- Implemented functional services using Javascript on the ThingWorx Platform.
- Leveraged ThingWorx services to manipulate data from dozens of Versa systems.
- Analyzed system data to predict source changes and the lifecycle of Versa systems.

Web Developer/Admin.   *May 2019 – Sep. 2019*
Concrete Shells   *San Jose, CA*
- Developed and managed responsive website using HTML, CSS, Jquery, Javascript, and JS libraries.
- Recreated wordpress based site to fully custom code, hosts original code on AWS EC2 instance.
- Quality tested website to optimize rendering time using Chrome DevTools.

Software Engineer Testing Intern   *Jan. 2019 – Apr. 2019*
VIA Alliance Technologies   *Fremont, CA*
- Downloaded and installed software programs into different systems and motherboards.
- Black box tested computer motherboard programs user interfaces on TVs and desktops.
- Collaborated with engineers to track bugs and report them to the RnD team.

PROJECTS

Fintrack   *Sep. 2020 – Dec. 2020*
AWS, GraphQL, HTML/CSS, Javascript, React, Git
- Led a team of engineers to implement a fully functional, scalable web application as the technical lead.
- Designed the landing page and implemented various React components used throughout the application.
- Provided technical guidance and support for team members to meet project deadlines on time.

Realtime Messenger   *Apr. 2020 – May 2020*
CocoaPods, Firestore, Swift, UIKit, SDWebImageSwiftUI, Git
- Developed authentication functionalities for application (registering account, login, signout, oAuth).
- Designed and implemented UI for application screens, created application based on MVC architecture.
- Stored to and fetched data from Firebase Firestore enabling real time messaging between users.

TECHNICAL SKILLS

Languages: HTML/CSS, Java, Javascript, Python, SQL, Swift
Frameworks: Bootstrap, React
Platforms: AWS, Firebase, ThingWorx

Databases: Firestore, DynamoDB, MySQL, S3
Operating Systems: MacOS, Linux, Windows
Tools: Adobe XD, Eclipse, Excel, Git, VSCode

LEADERSHIP

- Software and Computer Engineering Society   Development Team   Sep. 2019 - Aug. 2020
- Society of Asian Scientists and Engineers   Treasurer   June 2018 - May 2019
- MESA Engineering Program   Member   Aug. 2017 - Dec. 2020