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Technologies, Frameworks, and Others

Front-end: JavaScript ES6+, **React**, React-native, jQuery, Chart.js, D3, Axios, Jest/Enzyme, Mocha/Chai, HTML, CSS, CSS-Modules, Modular Design Pattern

Back-end: Node.js, Restful API, Express, Socket.io, Cassandra, PostgreSQL, MySQL, **MongoDB**, NGINX load balancer, K6, New Relic, **Amazon Web Services EC2 and S3**, Docker, Service Oriented Architecture, Linux, Python

Others: Salesforce Certified Administrator

Software Engineering Projects

Soundiverse, *An online music player* - **Back-end**
- Analyzed web traffic using **New Relic** to identify speed bottleneck to scale application effectively
- Scaled **Cassandra** database cluster and indexed 20 million records to reduce query time to < 10 ms
- Scaled application-servers horizontally using **NGINX load balancer** as well as vertical scaling of **AWS EC2** instances to achieve < 70 ms latency while handling 2000 request per seconds

Abode, A *real estate price-estimation application* - **Front-end**
- Developed home-value estimation application using **MySQL** to hold 10 million records and optimized **API** requests to reduce query times to < 10 ms
- Utilized **Modular Design Pattern** using **React** and **CSS-Modules** to increase reusability of front-end components
- Designed and implemented the application using Service Oriented Architecture to increase code maintainability and application's scaling capability

Dogether, *A to-do application with built-in social features* - **Full-stack**
- Developed a to-do application using **React-native** for iOS platform
- Implemented **socket.io** to incorporate instant messaging feature
- Developed a **minimum viable product** (MVP) using **scrum framework** and delivered the MVP in 3 days

Other Experience

Mission Support and Test Services, *A D.O.E. Contractor Company* - **Facility Electrical System Engineer**
(Jul 2018 - Sep 2019)
- Investigated and repaired critical electrical system failures to restore the facility's operational status
- Rebuilt documentations for various electrical systems to increase systems' maintainability
- Led periodic safety system assessments to ensure code compliance and increase system reliability

Nevada Army National Guard, *Nevada National Guard* - **Squad Leader**
(Jul 2013 - Jul 2018)
- Prepared and led logistic convoy training in groups of 20 soldiers every quarter to maintain the groups' deployment-readiness status
- Deployed to Afghanistan for 9 months to support logistic movements of Operation Enduring Freedom

Education

Hack Reactor - *Advanced Software Engineering Immersive Program* (2020)
University of Nevada, Las Vegas - *BS in Mechanical Engineering* | *BS in Physics* | *Minor in Mathematics* (2018)

Personal

I enjoy working on small projects to add automation to various parts of my home. On the weekends, I often tour model homes to gain decoration inspirations. My dream home has a balanced touch of indoor and outdoor with artificial intelligence fully integrated.