

LANGUAGES		FRAMEWORKS / LIBRARIES		KNOWLEDGE / SKILLS	
• C#	• Python	• React.js	• .NET / .NET Core	• Git	• RESTful API
• HTML5 / CSS3	• Node.js	• Redux	• React Native	• Agile	• MongoDB
• JavaScript / ES6	• GraphQL	• Express.js	• Spring	• Docker	• PostgreSQL/MSSQL
• Java	• Swift	• Hasura	• xUnit Testing	• Kafka	• CI / CD

## WORK EXPERIENCE

### Software Engineer II

Software Engineer I

Melissa Data - Rancho Santa Margarita

March 2021 - Present

February 2019 - March 2021

- Initiated and implemented a .NET Core library and template that standardized team's data importers, increasing productivity by 60% and reducing requirement errors by 95%
- Designed and developed an easily maintained SQL table verifier in .NET Core which dramatically boosted data quality by 78% and reduced post review correction time by 80%
- Utilized queue workers and blocking collections to multi-thread a program, reducing table processing time by 57%
- Designed and implemented a French diacritic standarization process that reduced amount of incorrect new records
- Established documentation standards to ensure consistency between team members and simplified info transfer

### Full Stack Developer - Externship

Technossus - Irvine

October 2018 - November 2018

- Architected and optimized RESTful API routes with Node.js, Express.js, PostgreSQL, and pg-promise
- Increased coding productivity by mentoring junior programmers through code reviews and assisting with blocked tasks
- Enforced administrative security with JWT authentication/authorization and password hashing encryption
- Proposed and implemented Redux to have a single application state and to simplify application extensibility
- Externship was a two month contract between boot camp and partnered company

### Quality Control Engineer I

Biometrics4ALL - Irvine

January 2018 - August 2018

- Devised an Agile escalation process that improved inter-departmental communication and escalation resolutions by 20%
- Designed test scripts to provide 100% test coverage for new client and server features and enhancements
- Prevented approximately \$5,000 of incorrect charges by swiftly identifying a bug in automated billing system
- Enhanced legacy documentation with current and best practices to accelerate future training

### Support Engineer Tier I

Biometrics4ALL - Irvine

April 2017 - December 2017

- Reduced configuration time by 15% by developing automated batch scripts and Window Form utilities
- Elevated software comprehension retention by 10% for new hires and customers by improving training material

### Associate Software Engineer

Dealersocket - San Clemente

July 2016 - January 2017

- Improved Customer Master Data Management (MDM) searches by implementing Elasticsearch de-duping logic
- Researched and implemented Apache Kafka to stream data from different MSSQL databases to multiple MDMs

### IT Intern

Costa Mesa City Hall - Costa Mesa

February 2015 - June 2015

- Developed a Java Web MVC application with Spring that used ElasticSearch to search through all city databases



## PROJECTS

### Brew Bean

React/Node.js/GraphQL/Hasura/PostgreSQL

Web application where people can discover, learn, and share anything coffee related

- Implemented URQL cache system in order to update GraphQL queries in memory and reduce network calls
- Built dynamic reusable form components and utilized Yup and React Hook Forms for validation handling
- Devised and integrated a coffee recipe import system for easier brew log recording
- Pioneered core CRUD functionality with GraphQL, URQL and Hasura

### Venmo Doordash Validator

Node.js

Node application that compared Doordash receipts with Venmo payments

- Utilized xlsx converter in order to compare spreadsheets and generate a list of paid and unpaid Doordash meals

### P.U.G. (Pick Up Games)

React Native/Node.js/GraphQL/PostgreSQL

Mobile application where gamers can join chat rooms to find a group to play online games with

- Implemented Chatkit API to let the current user retrieve previous message history upon joining a new chatroom
- Resolved the issue of distinguishing different users in a chatroom by assigning unique bubble colors to each user

### Bouncing Blocks

React Native

Mobile application where players create trampolines to bounce falling blocks across obstacles to score points

- Perfected collision by casting a ray segment between the two bodies and returning all detected intersections
- Integrated React Native Game Engine to frequently keep track of game state and update the physics engine

### Study Buddies / Study Buddies Mobile

MERN Stack / React Native

Web & Mobile application where users can generate, study, and quiz themselves with flashcard sets

- Implemented the quiz generation algorithm that ensured random card question and answer ordering
- Applied Redux to retrieve data upon application startup to decrease load times upon component mounting

## EDUCATION

### University of California, Irvine

June 2016

Bachelor of Science, Computer Game Science