

## EXPERIENCE

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### Software Engineer

Sacramento, CA

*Fast Enterprises*

Jul 2018-Jan 2020

- Configured automation, dashboards and dozens of new tax types via system software design, VB.NET and SQL for the California Department of Tax and Fee Administration, expected to generate \$50M over 5 years
- Requirements gathering, customization and user acceptance (system) testing

### Developer/Scrum Master

Loudonville, NY

*Siena College*

Sept 2017-Apr 2018

- Developed a web application using Angular, D3.js and Bootstrap to display an emotional and physical analytics dashboard for a local analytics company as part of the senior level Capstone course
- Served as the developer and Scrum Master, while conducting weekly stand-up meetings and meeting with the clients to discuss the status of the product

### Software Development Intern

Albany, NY

*New York State Senate*

Sept-Dec 2017

- Converted a travel request procedure from paper to online for the New York State Senate's Employee Self-Service, impacting over 1,500 employees
- Used Java, Spring, PostgreSQL, the Google Maps API and Bootstrap to develop a RESTful API to calculate travel reimbursements and distance traveled
- Met often with clients and supervisors to determine functional requirements and demonstrate progress

### Student Researcher

Loudonville, NY

*Siena College*

Jun-Jul 2017

- Worked with the Department of Computer Science to implement a deduplication algorithm to reduce the number of unique individuals in a CSV data set provided by HUD by 30%
- Conducted research through research papers to identify potential improvements, such as fuzzy string matching and the ability to handle human errors

## PROJECTS

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### Smash Stats

- Developing a web application utilizing Bootstrap, React and React Router to display frame data and animations in the Super Smash Bros. series, conditionally read from JSON objects extracted from the games

### Twitchtistics

- Charts a specified streamer's videos and their respective view counts, built with Flask, D3.js and the Twitch API

### Text Retrieval System

- Programmed an information retrieval system utilizing Serializable objects, able to index 20,000 files in 15 seconds
- With the integration of the Porter2 stemming algorithm, decreased unique dictionary size by 38.3%
- Performs either a vector space model or a simple Boolean model search in under a second

### Porter Stemmer

- Implemented Snowball's Porter2 stemming algorithm in Java, grouping similarly stemmed words
- Uploaded as a Maven artifact to the Central Repository, allowing integration with any Maven project

## SKILLS

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- Languages: Java, Kotlin, Android, HTML, CSS, JavaScript, Angular, React, PHP, SQL, Python, Node.js, C, VB.NET
- Environments: Windows, Linux, Visual Studio, IntelliJ, PyCharm, AWS, Git, Jira
- Methodologies: Agile, Scrum

## EDUCATION

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### Siena College

Loudonville, NY

*Bachelor of Science, Computer Science*

May 2018