

## EXPERIENCE

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### Implementation Consultant      Fast Enterprises      Jul 2018-Jan 2020

- Software Engineering: Enabled tax compliance activities (including automation) via system software design, VB.NET application development and fine-tuned SQL queries for use in production for the California Department of Tax and Fee Administration
- Business Intelligence: Advanced SQL analysis and creation of reports and dashboards by analyzing internal/external data, which is used to drive tax compliance activities
- Business Analysis: Requirements gathering, customization and user acceptance (system) testing

### Software Development Intern      New York State Senate      Sept-Dec 2017

- Helped convert a travel request procedure from a paper process to online for the New York State'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      Siena College      Jun-Jul 2017

- Worked with the Department of Computer Science to reduce the number of unique individuals in a data set provided by HUD by 30% by implementing a deduplication algorithm
- Identified 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 to display frame data and animations in the Super Smash Bros. series, conditionally read from JSON objects extracted from the games
- Technologies utilized are Bootstrap, React and React Router

### Twitchtistics

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

### Weekly Comic Books

- Developed a web application to display the most recently released comic books and manga
- Integrated with the ComicVine API, Knockout.js, Webpack and Bootstrap

### Text Retrieval System

- Programmed a real-time text retrieval system, able to index 20,000 files in 15 seconds, utilizing Serializable objects
- 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

## PROGRAMMING SKILLS

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Java, Android, HTML, CSS, JavaScript, Angular, React, SQL, Python, Node.js, C, VB.NET

## EDUCATION

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**Siena College**  
Bachelor of Science, Computer Science

**Loudonville, NY**

**May 2018**  
GPA: 3.7