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Hamza Memon

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Experience

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

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

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

Education

Siena College — **Loudonville, NY** — **May 2018**
Bachelor of Science, Computer Science — GPA: 3.7