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SPENCER GRIFFIN

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EDUCATION

University of Pennsylvania, School of Engineering and Applied Sciences — **Philadelphia, PA**
Master of Computing and Information Technology, Computer Science | GPA: 3.50/4.0 — *December 2022*

- **Relevant Coursework:** Software Development, Discrete Math, Data Structures, Algorithms, Operating Systems, AI, Database & Information Systems, Distributed Systems

Babson College, School of Business — **Babson Park, MA**
Bachelor of Science, Business Analytics and Computational Finance| Magna Cum Laude | Major GPA: 3.78/4.0 — *May 2020*

WORK EXPERIENCE

FastSpring — **Santa Barbara, CA**
Software Engineering Intern — *September 2021 – September 2022*

- Resolved high-priority customer issues relating to global online payments, subscription management, branded checkout, and global taxes, resulting in a 40% reduction in customer-facing software bugs
- Employed log4j, Looker, and Sumo Logic for custom logging and advanced log analysis, identifying and resolving issues with failing Dutch bank processing orders, saving customers upwards of $10K in lost revenue
- Expanded the wire transfer payment service using Java and DynamoDB to enable customers in over 25 previously unsupported countries to securely and efficiently complete their transactions
- Trained engineering team on how to use FastSpring's embedded checkout JavaScript library, and authored Confluence documentation for the library, which was subsequently used by senior engineers to ensure accurate and consistent testing

Canadian Revenue Agency — **Ottawa, Canada**
Data and Usability Team Student Intern — *May 2021 – September 2021*

- Created an automated dashboard that displays web traffic, search analytics, and page feedback from the agency's websites, social media pages, and call centers
- Used Python to fetch data from Airtable, Adobe Analytics, and Google Search APIs and employed JavaScript's D3 library to create visualizations from this data for the dashboard

PROJECTS AND OTHER EXPERIENCE

Cloud-based Search Engine — **Philadelphia, PA**
December 2022

- Built a fully-featured, AWS EC2 hosted web search engine using Java and React, resulting in a highly functional and efficient tool for searching the web that can perform basic queries and handle large scale data
- Assembled and integrated various components, including a web server, key-value store, a custom-built analytics engine modeled after Apache Spark RDD API, crawler, and simple indexer and PageRank

Spotify Web Application — **Philadelphia, PA**
January 2022 – May 2022

- Designed an AWS-hosted website that allows users to create custom playlists, search for artists' works, and create custom artist visualizations
- Wrote initial SQL queries to extract and clean data from our chosen Spotify dataset
- Optimized initial queries to achieve a 10% and 20% reduction in execution time and records returned respectively

Penn MCIT Hackathon Winner — **Philadelphia, PA**
January 2021

- Created an app that calls a user's phone number and reads out tweets from a specified twitter account
- Leveraged the Twilio API using Python to process extracted tweets from our program, call the user's phone number, and read the tweets aloud

TECHNICAL SKILLS & INTERESTS

- **Languages:** Java, Python, R, JavaScript/HTML/CSS, React, SQL, Bash, C, NoSQL (MongoDB, Neo4J)
- **Frameworks and Libraries:** React, Flask
- **Tools:** Docker, AWS (DynamoDB, EC2, Jenkins), Git, JIRA, Agile, Maven, IntelliJ, Eclipse, VS Code
- **Personal Interests:** Arsenal, Soccer, Gardening, Geopolitics, Cats