Email: spencersdgriffin@gmail.com

Phone: (+1) 617-893-1229

SPENCER GRIFFIN

GitHub: *github.com/sgriffin10*

LinkedIn: *linkedin.com/in/spencergriffin1*

EDUCATION

University of Pennsylvania, School of Engineering and Applied Sciences   **Philadelphia, PA**
Master of Computing and Information Technology, Computer Science   *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   *May 2020*

WORK EXPERIENCE

Spur   **Remote**
Chief Technology Officer (Part-Time)   *March 2023 – Present*
- Lead the development and implementation of Spur, a social media app designed to deepen friendships through spontaneous interactions, managing stakeholder expectations while aligning business and user needs
- Use Express.js to manage a RESTful API, streamlining interactions with MongoDB for complex data handling, managing friend-group relationships, and bolstering front-end application integration
- Leverage Google Cloud Platform to optimize data storage in Firebase, incorporating image compression and caching for cost-effectiveness, scalability, and performance
- Employ Firebase for secure user authentication, creating user persistence, and strategically passing authentication data to the MongoDB back-end
- Utilize Flutter and Dart for front-end development, establishing an MVC architecture for state and code management

Lowe-Martin Group   **Ottawa, Canada**
E-Commerce Associate   *September 2022 – Present*
- Lead the development and maintenance of client fulfillment websites, employing HTML and CSS for tailored UI enhancements and integrating additional data collection fields
- Engineer automation processes using Python and Selenium, effectively expediting user onboarding, product overhauls, and report generation, resulting in reduced manual effort and increased operational efficiency
- Manage site content and user access, implementing seamless addition of products and users based on client requests, showcasing problem-solving capabilities and a commitment to customer service

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

PROJECTS

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

TECHNICAL SKILLS & INTERESTS

- **Languages:** Java, Python, Dart, C#, R, JavaScript, HTML, CSS, SQL, Bash, C
- **Database Systems:** MongoDB, Neo4J, DynamoDB
- **Frameworks and Libraries:** Flutter, Express, Node.js, React, Flask, Selenium,
- **Tools:** Firebase, Docker, AWS EC2, Google Cloud Platform, Jenkins, Git, JIRA, Agile, Maven, IDEs (IntelliJ, VS Code, Xcode)
- **Interests:** Toastmasters, Soccer, Golf, Badminton, Geopolitics, Gardening