Permanent Address:
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GRIFFIN BISHOP

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Campus Address:
100 Institute Road
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EDUCATION: **Worcester Polytechnic Institute (WPI)**, Worcester, MA
Bachelor of Science in Computer Science, Minor in Data Science, GPA 3.9/4.0 May 2019
Master of Science in Computer Science May 2020

MANAGER RECOMMENDATION: "Griffin is smart, hard-working, and driven to succeed. Griffin may have been an intern, but he was more productive than most full-time software engineers. He will become a strong asset at any company that is lucky enough to have him." - *Spencer Mortensen, Senior Software Engineer at Datto (via LinkedIn Recommendations)*

PROFICIENCIES: Hadoop, Hive, MapReduce, Spark, Pig, Python, PHP, JavaScript, React, Java, C, C++, Racket, PL/SQL, Bash, AngularJS, TypeScript, Functional Programming, Linux/Unix, Docker, Git, Keras, Jenkins

SOFTWARE ENGINEERING EXPERIENCE:

Software Engineering Intern, Wayfair, inc - Ad Tech and Customer Intelligence June 2018

- **Full stack web app:** Used React, PHP and MS-SQL to create a web application for reading, updating, and organizing advertising feeds.
- **Best intern project:** The above was voted best intern project and is currently in use by the ad technology team.
- **Push Notification Personalization:** Designed and implemented a backwards compatible way to integrate personalization into push notifications for the Wayfair app. This improved the user experience and click through rate for more than 5 million customers.

Software Engineering Intern, Datto, inc June 2017

- **Macro preprocessor:** Implemented a context-free, top-down LL(*) parser for the query language compilation portion of Datto's Cinnabari engine. Wrote a macro preprocessor to interpret the syntax tree and expand macro tokens based on semantic context.
- **Database analyser tool:** Developed a database administration tool to scan an entire MySQL database to produce a documentation website running on the Symfony framework. Implemented a parallel algorithm which reduced sampling times from 12 hours to under 10 minutes. Open source | github.com/gr-b/database-analyzer

PROJECTS:

Deep Learning for Data Privacy Classification, Aristo Consulting, Zürich, Switzerland August 2018

- Worked with two companies to develop a deep learning solution for GDPR compliance. Performed a broad survey of feature extraction, dimensionality reduction, and classification techniques for natural language processing.

Functional Programming Language Interpreter, Programming Languages, WPI March 2018

- Wrote an interpreter for a language that included type inference, local variables, mutation, references, and objects.

Data Visualization Platform, WPI, Venice, Italy December 2017

- Worked on an interdisciplinary team of 8 to develop a platform for creating and publishing interactive visualizations of data collected by the WPI Venice Project Center over the past 30 years. Created several unique interactive data web apps on top of the Google Maps API.

Line Art Genetic Algorithm May 2017

- Developed a genetic algorithm that draws photographs using only a set of line segments.

ADDITIONAL EXPERIENCE:

MASH Leader, Academic Resources Center, WPI August 2016-present

- Tutored groups of WPI students in **Computer Science** and **Calculus** courses daily. Participated in the International Tutor Training Certification from the College Reading and Learning Association.

Instructor, iD Tech, SNHU/Harvard University June 2016

- Developed curriculum and activities to teach students the fundamentals of programming. Taught courses including **C++**, **Java**, and **Python**. Guided students to create projects such as Flappy Bird, Geometry Dash, and Pac-Man.

ACTIVITIES AND LEADERSHIP:

- Beta Theta Pi - Finance Chairman, WPI Dec 2016-present
- Men's Varsity Crew Team, WPI Sept 2015-present

AWARDS: Upsilon Pi Epsilon Honor Society | Men of Principle Award | Dean's List | Peer Learning Achievement Award