ALVIN ROBERT BIERLEY

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EDUCATION

Carleton College | Northfield, MN   June 2021
Bachelor of Arts in Computer Science   Cumulative GPA: **3.45**
                                                                                Computer Science GPA: **3.7**

SUMMARY

Multi-faceted software engineer with a strong understanding of object-oriented programming, data structures, and algorithm implementation. Valuable team player with a personable and dedicated nature.

SKILLS AND INTERESTS

Knowledgeable in Python, Java, C, JavaScript, HTML, CSS, and R; some experience with Postgres, C++, and Scheme. Experienced in web development and data analysis, and possess advanced problem solving skills. Familiar with Git. Fluent in Mandarin, proficient in Spanish.

PROFESSIONAL EXPERIENCE

Qolsys | San Jose, California
Financial Accounting Intern   June 2019 – August 2019
- Created an excel model to estimate future company expenditures based on past reported financial trends
- Streamlined financial reporting by implementing Excel functions to create daily spreadsheets
- Managed and updated financial accounts and permanent records for current clients

Bierley Associates Inc. | San Jose, California
Web Development Intern   July 2019 – August 2019
- Maintained and developed company website with HTML, CSS, and JavaScript
- Created HTML email to increase company outreach and brand awareness

Carleton College | Northfield, Minnesota
Admissions Website Blogger   September 2017 – Present
- One of eight bloggers at Carleton College
- Selected to represent the institution by describing life as a college student-athlete and aiding high school students in the admissions process

AmeriCam Automotive | San Jose, California
Business Development Intern   May 2017 – August 2017
- Corresponded with software engineers in Asia to enhance and develop the functionality of existing software
- Developed technical manuals detailing the functionality of the hardware and software of the DVR devices

PROJECTS (github.com/bierleya)

Scheme Interpreter | *Programming Languages Project at Carleton College*
- Created an interpreter for the Scheme programming language. Written in C, utilizes bottom-up parsing.
- Implemented somewhat inefficient, but effective garbage collection

UFO Website | *Software Design Project at Carleton College*
- Web application with search functionality that pulls and filters information from a database of UFO sightings
- Written in Python, HTML, and CSS, utilizes PostgreSQL and Flask

Maze Solver | *Data Structures Project at Carleton College*
- Creates a maze given inputs from a text file; solves and draws a solution to the maze using a linked-list implementation of a stack. Written in Java.

Password Generator | *Personal Side Project (bierleya.github.io/password-generator)*
- Random password generator written in HTML, CSS, and JavaScript
- Takes password length from user and provides multiple filters to generate a secure password