

ALVIN ROBERT BIERLEY

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EDUCATION

Carleton College | Northfield, MN
Bachelor of Arts in Computer Science

June 2021
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++, Scheme, and developing with React and Flask. 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