Brent Doyle

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EDUCATION

University of California, Davis — Davis, CA

Bachelor of Science in Computer Science and Engineering | GPA 3.79/4.00 — *Expected Graduation: June 2026*

Minor in Electrical Engineering

Relevant Coursework: Introduction to Programming, Object-Oriented Programming, Data Structures, Discrete Mathematics for Computer Science, Machine Dependent Programming, Theory of Computation, Circuits 1 & 2, Algorithm Design & Analysis, Probability & Statistical Modeling

SKILLS

- **Computer:** C, C++, Python, Assembly, Tensorflow, HTML, CSS, Matlab, OrCAD
- **Software:** Windows, MacOS, UNIX
- **Languages:** Fluent in English

RELEVANT EXPERIENCE

Google Developer Student Club - Davis, *UC Davis* — *November 2023 - Current*

- Tech Associate in the Cybersecurity/AI/ML team. Work within a team environment to create a project focusing on security and machine learning.
- Malware Detection Program. Under the guidance of the Tech Director, create a malware detection program using Tensorflow machine learning and programming in Python. Trained the program to recognize different types of malware and non-malware samples with over 70% accuracy. Showcased in a Flask app.

Volunteer Peer Tutoring, *Foothill High School* — *August 2020 - June 2022*

- Volunteered weekly tutoring with Freshman Math class.
- Peer tutor in World History class, helping individual students understand lectures and complete homework assignments/projects.
- Volunteered with a variety of students in need of Math tutoring. Personalized how to help each student learn and understand in a way that was best suited to their learning style.

PROJECTS

Dump2JSON and JSON2Object, *Object-Oriented Programming Project* — *May 2023*

- Created two functions called Dump2JSON and JSON2Object. Dump2JSON is used to dump an object with its stored values into JSON objects and store it in a JSON file. JSON2Object converts a JSON file storing JSON objects into C++ objects.
- Both functions work properly due to the use of polymorphism and inheritance.
- Debugged all errors and used test files to ensure the code worked properly.

Floating Point Calculator, *Machine Dependent Programming* — *March 2024*

- Create a precise floating point calculator in C++ language with inline assembly embedded in some functions.
- Add and subtract floating point decimals using IEEE 754 floating point format to perform calculations.
- Used carrying and borrowing to make answers as precise as possible.

HONORS AND AWARDS

Dean's Honor List, UC Davis College of Engineering — *Fall Quarter 2022, 2023*

Cougar Award — *December 2019*

Melton Family Heart of the Cougar — *December 2021*

2021 Sac River-EAL League Northern Section CIF All-League in Football — *December 2021*