Brian Escutia

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EDUCATION

University of California, Davis   Graduation: June 2027
Bachelor of Science in Computer Science
- Relevant Coursework: Software Development & Object-Oriented Programming in C++, Data Structures, Algorithms, & Programming, Probability & Statistical Modeling for Computer Science, Computer Architecture, Introduction to Artificial Intelligence, Operating Systems, Programming Languages, Computer Networks

PROJECTS

Cownect - React, Express, MongoDB, OpenAI GBT-4 API, Google OAuth   *June 2024 - Present*
- Built MERN stack AI-powered career platform analyzing quiz responses across 55 career paths, serving 350+ UC Davis students with 1,000+ completed assessments
- Optimized backend performance by parallelizing 6 OpenAI API calls using Promise.all(), implementing weighted mentor matching algorithm, and designing MongoDB compound indexes for efficient querying
- Led cross-functional team of 5 as Project Manager and Backend Developer, architecting system handling career analysis, club recommendations, and event management with calendar integration

TaxAssist – React, Firebase, OpenAI GBT-4 API   *July 2024 - Present*
- Architected full-stack tax preparation platform integrating 5+ IRS Direct File API endpoints with React frontend and Node.js/Express backend for federal tax filing workflows.
- Engineered secure data pipeline with MongoDB storage, JWT authentication, and AES-256 encryption to handle sensitive financial documents meeting federal compliance standards
- Built AI-powered document parser using OpenAI GBT-4 API to automatically extract and validate 20+ tax form fields from W-2s and 1099s with error handling for malformed documents

Youphoria – Wellness App | Technology Analyst | React Native, Firebase   *August 2024 - Present*
- Architected Firestore schema with composite indexes and security rules, enabling scalable group, chat, and leaderboard features with protected owner-only actions.
- Built Cloud Functions for group management, leaderboard recomputation, and deep linking via Firebase Dynamic Links to streamline invitations and engagement.
- Delivered real-time notifications and emulator + seed scripts, improving user experience while accelerating UI team development and testing.

WORK EXPERIENCE

GoWell Education – Robotics & Python Programming   Davis, CA
Technical Instructor   *June 2025 - August 2025*
- Taught Python fundamentals and algorithmic thinking to 45+ international high school students
- Designed and delivered 10+ project-based lessons, improving debugging accuracy from 30% to 100%
- Mentored 10 teams on final projects involving logic-based robotics tasks, achieving a 100% program completion rate.

Center for the Educational Opportunity Program (EOP)   Davis, CA
Peer Advising Counselor - Academic Guidance & Events   *July 2023 - Present*
- Developed and deployed web-based student feedback system to replace ineffective email surveys, enabling real-time satisfaction data collection and CSV export for administrative reporting
- Organized large-scale events, including talent shows and socials, with an average attendance of 200 students.
- Provided personalized academic and social guidance to 100+ first-generation, low-income students, contributing to a 85% increase in retention rates

SKILLS & INTERESTS

- *Technical Skills:* Python, JavaScript, C, C++, HTML, CSS, SQL, R, Swift, TypeScript
- *Frameworks & Tools:* ReactJS, NodeJS, Express, Git, VS Code, Postman, Vite, Semantic UI, OpenAI API, Jest
- *Databases & Cloud:* MongoDB, Firebase, PostgreSQL, Redis, AWS, RESTful services, Data Encryption