ERIC BARLAAN

COMPUTER SCIENCE STUDENT | SOFTWARE DEVELOPMENT AND TESTING

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Oregon State University computer science student graduating June 2027, seeking software development, testing, or technical support internships and entry level roles. Projects combine Python API integration, JavaScript web development, and Flutter, with practical troubleshooting experience in CNC manufacturing.

EDUCATION

Oregon State University | B.S. in Computer Science (Postbaccalaureate)

Expected June 2027. Coursework: Python data structures, C programming, and JavaScript web development. Data structure work includes linked lists, stacks, queues, and AVL rotations.

De Anza College | Design and Manufacturing / CNC Machining Certificate

Completed 2024.

SELECTED PROJECTS

Baymax Assistant | Personal project | Python, API integration

- Built an AI-assisted voice assistant that connects speech recognition, a language model, and speech output through separate service interfaces.
- Used explicit conversation states and regression tests with fake services to check transitions and parsing without paid API calls.

User Records REST API | OSU CS 290 | JavaScript, Express, MongoDB

- Implemented create, read, update, and delete endpoints using Express and Mongoose.
- Verified 29 local HTTP requests, including missing records and partial updates.

Ready Lists | Personal project | Flutter, Dart, Codex

- Used Codex to prototype and debug an offline iPhone checklist app with reusable templates and local JSON storage.
- Checked persistence and app behavior with Flutter tests and a physical iPhone launch.

TECHNICAL SKILLS

Languages: Python, JavaScript, HTML, C; introductory Dart

Tools and frameworks: Node.js, Express, MongoDB/Mongoose, Flutter, Xcode, Codex

Methods: REST API testing, debugging, edge case analysis, technical documentation

RELEVANT EXPERIENCE

Machinist | Calculated Racing, Santa Cruz | May 2023 to April 2024

Set up CNC mills, interpreted technical drawings and CAD models, checked part quality, and troubleshot equipment.

Associate Producer | SONiVOX, Somerville | May 2008 to March 2009

Supported QA testing and product demonstrations for software involving an interactive MIDI engine on Android.

Corporal, Supply Administration | U.S. Marine Corps Reserve | 2006 to 2014

Maintained supply records, inventory accountability, and logistical documentation.