OWEN DONOHUE

(707) 295-7222 | Owenpdonohue@gmail.com

SUMMARY

Software Engineer with a B.S. in Computer Science from Sonoma State University, proficient in C++, Python, and GitHub. Completed coursework in Computer Vision, AI, and Algorithm Analysis, demonstrating a solid foundation in image processing and real-time systems. Eager to contribute to edge applications and performance optimization through reliable, collaborative code development.

SKILLS AND PROGRAMMING LANGUAGES

- **Courses**: Algorithm Analysis, Computer Vision, React Development, Programming Languages, Statistics, Game Development, AI Development, Machine Learning
- **Programming Languages And Tools**: C, C#, C++, Python, HTML, JavaScript, Visual Studio, Jupyter Notebooks, MySQL, Github, Google Sheets
- **Certifications**: CompTIA A+ | 2025

WORK EXPERIENCE

Linda Donohue Fine Art   **2020 - Present**
Artist's Assistant
- Developed and maintained the website frontend using HTML, ensuring a user-friendly and accessible online presence.
- Managed website content and execution of art show booth setups, demonstrating attention to technical details and project coordination.

5 Guys   **2018 - 2020**
Crew Member
- Executed food preparation, order processing, and cleaning tasks with efficiency, contributing to smooth daily operations.
- Assumed leadership responsibilities during team member absences, highlighting strong teamwork and problem-solving skills.

EDUCATION

Sonoma State University   **2020 - 2024**
Bachelor of Science, Computer Science
- **Coursework:** Algorithm Analysis, Computer Vision, React Development, Programming Languages, Statistics, Game Development, AI Development

PROJECTS

Anime Chat Bot   **2025**
Freelance Project
- Built a real-time desktop assistant styled after a visual novel UI using React + Electron, with character-driven interactions and animated typewriter dialogue.
- Integrated with the Gmail API to automatically fetch, classify, and summarize important emails using a custom-trained local ML model and GPT-4o.
- Designed a hybrid backend using FastAPI, enabling live updates through WebSockets, and on-demand chat-based summarization via GPT.
- Implemented real-time monitoring using APScheduler to scan emails every 5 minutes and notify the assistant of relevant messages.
- Enabled conversational AI behavior with dynamic context switching between inbox summaries and open-ended GPT-powered responses.

WoWTeamz   **2024**
Sonoma State University
- Integrated the Blizzard API for seamless character data retrieval, enabling users to add characters to their accounts by entering a character name, and incorporated features for stat analysis, comparisons, and note-taking.
- Developed an API using Node.js and Express.js, designed with JWT-based authentication to ensure secure access to user data, hosted by AWS.
- Built an intuitive and responsive React.js front-end with Material-UI, delivering a user-friendly interface that enhances user engagement and functionality.

Compiler Engineer   **2024**
Sonoma State University
- Designed Interpreter for C-style language in C++. Interpreter consisted of 6 step process of removing comments, tokenizier, using a symbol table, abstract syntax tree, concrete syntax tree, and the final interpreter with a program counter