

OWEN DONOHUE

SOFTWARE ENGINEER

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EDUCATION

Sonoma State University | 2020 - 2024

- Bachelor of Science in Computer Science

PROJECTS

Anime Chat Bot | Full-Stack Developer | 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 | Full-Stack Developer | 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

WORK EXPERIENCE

Artist's Assistant | 2020 - Present

Linda Donohue Fine Art

- Created website frontend using HTML and managed website. Cleaned and set up booths at shows.

Crew Member | 2018 - 2020

5 Guys

- Prepared food, took orders, cleaned, and helped lead in times of absences.

SKILLS AND PROGRAMMING LANGUAGES

Courses

- Algorithm Analysis, Computer Vision, React Development, Programming Languages, Statistics, Game Development, AI Development

Programming Languages and Tools

- C, C#, C++, Python, HTML, JavaScript, Visual Studio, Jupyter Notebooks, MySQL, Github, Google Sheets

Certifications

- CompTIA A+ | 2025