

LOGAN BARKER

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EDUCATION

California Polytechnic State University, San Luis Obispo

GPA: 3.99 | President's List 2022-2024

Master of Science in Computer Science

Graduating June 2026

Bachelor of Science in Computer Science: Artificial Intelligence and Machine Learning Concentration **Winter 2025**

Relevant Coursework: Artificial Intelligence, Applied Linear Models, Knowledge and Discovery From Data, Vector Calculus, Linear Algebra/Analysis, Software Engineering, Design and Analysis of Algorithms, Object Oriented Programming, Systems Programming, Database Systems, Networked Distributed and Parallel Computing, Operating Systems, Data Structures

Research: Exploring the Neuroidal Machine Learning Model with Dr. Mugizi Rwebangira to evaluate viability/learning potential

EXPERIENCE

Full Stack Software Engineer Lead | IntelliSAR

January 2023 – Present

- Architected the **system design** for a search and rescue app built with **React Native** and **Expo** by constructing **UML diagrams** and **Figma prototypes** which were reviewed and approved by superiors
- Constructed and implemented an **MVC** architecture with a custom **REST API** using **Express** and **Firestore** to serve **1000+** requests per day across **100s** of users from worldwide search and rescue organizations
- Refocused and **led** a disorganized development team of 7 using an **Agile** structure to deliver an **MVP** in **5 months**

Software Developer | Anemo AI

May 2024 – September 2024

- Collaborated with a Cal Poly based startup in a **fast paced team environment** with **weekly code reviews**
- Developed project management software for a custom **Python** package, demonstrating strong analytical abilities
- Simplified complex product feature requirements into practical engineering tasks for focused execution
- Delivered ahead of schedule consistently allowing for **weekly releases** of the team's product for buildspace

Frontend Web Development Intern | AssureHire

June 2021 – August 2021

- Digitized **3 forms** for the Department of Transportation initially using native **Javascript, HTML, and CSS**, then rebuilt using frameworks such as **Svelte** and **TailwindCSS**
- Parsed **1000+ rows** of ambiguously structured user data and implemented form autocomplete
- Articulated technical solutions to team leads and client side representatives after completing **10+** feature requests

PROJECTS

Climate Conscience | Berkeley's AI Hackathon 2024

June 2024 | <https://github.com/ljbarker/ClimateConscience>

- Generated a tailored carbon footprint reduction plan with **Anthropic's Claude 3 LLM** models on **Amazon Bedrock**
- Deployed a full stack web application with **2k+ lines of code** on **Vercel** within **36 hours** due to effective communication and debugging skills under pressure

WhatchaGot

February 2024 – March 2024 | <https://github.com/ljbarker/WhatchaGot>

- Produced **3 wireframes, class diagrams, and figma prototypes** for a comprehensive meal planning web application
- Led a **6-week** project implementing user auth and access control with **React, JWT, bcrypt, and MongoDB**
- Utilized **Github Actions** and **Azure** to create **CI/CD** pipelines for successful deployment during three **2-week sprints**

AlFred | CalHacks 10.0

October 2023 – November 2023 | <https://github.com/SilveerDusk/calhacks>

- Tailored **OpenAI's GPT 3.5, Whisper, and Bark** to serve as a personal assistant capable of **STT/TTS input/output**
- Implemented an intuitive user interface using **Reflex**, receiving praise from judges on concept and execution

SKILLS

Languages: Python | JavaScript | TypeScript | Java | Clojure | SQL | C | Go | HTML | CSS

Frameworks: React | React Native | Svelte | Astro | NextJS | NodeJS | TailwindCSS

Technologies: MySQL | MongoDB | Supabase | Firebase | Expo | Pytorch | Amazon Web Services | Microsoft Azure

Operating Systems: Windows | macOS | iOS | Linux

Certifications: Amazon General Cloud Practitioner (IP), Stanford Machine Learning Specialization

INTERESTS | ACTIVITIES

Record-Breaking Powerlifter, Advanced Math Workshop Leader, CS+AI Club VP and Officer, Paddleboarding, Soccer, Gaming