Adam Hammond

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EDUCATION

B.S. Computer Science   Sep. 2020 - Dec 2023
University of California, Santa Cruz; GPA: 3.75 (Honors)   *Santa Cruz, CA*

EXPERIENCE

Junior Programmer   May 2021 - Sep 2022
Red Tide Games   *Santa Rosa, CA*
- ◆ Designed C++ classes and functions as backend parents for Unreal Engine 5 elements
- ◆ Learned and worked with many Unreal 5 systems like Behavior trees, Blueprints, UI plugins.
- ◆ Developed main menu, keybinding design, UI, level generation, and AI behavior
- ◆ Used Perforce source control with continuous integration on a custom Jenkins server

PROJECTS

Personal Website | *JavaScript, React.js, Node.js*   Oct 2022 - present
- ◆ Portfolio website hosted on Github Pages with a custom domain name
- ◆ Designed and built a front-end in JavaScript and React.js, featuring multiple pages and dark mode

Government Document Summarizer | *TypeScript, React.js, Node.js, MongoDB, Express*   Sept 2023 - Dec 2023
- ◆ Coordinated with sponsor FlashGov to create a full stack web application prototype with a small team of students
- ◆ Scrapes, stores, and serves government documents with AI-generated summaries, as well as a searching interface
- ◆ Designed and built a RESTful backend API with Express to interface with database using the Mongoose library
- ◆ Created and managed MongoDB Atlas cluster holding data, as well as helped develop the React front-end

iCook Cookbook Application | *JavaScript, React Native, Node.js, SQLite, Scrum*   June 2023 - Aug 2023
- ◆ Collaborated an agile team of 6 UCSC students to create a mobile app
- ◆ Mobile cookbook application compatible with Android & iOS with searching, shopping cart, and local storage
- ◆ Built much of the front-end using React Native. Added search functionality, interfaced with SQLite via JavaScript
- ◆ Focused on adhering to Scrum methods: Daily Standup, Release Planning, Sprint planning, Scrum board

Machine Learning sleep classifier | *Python, PyTorch, Pandas*   April 2023 - June 2023
- ◆ Led and collaborated with 3 UCSC students in a machine learning research project for a UCSC neuroscience lab
- ◆ Built, trained, and fine tuned a complex CNN model in order to classify mouse sleep data for UCSC neuroscience
- ◆ Worked closely with the researchers to understand their needs and pitch a relevant project trained by their data
- ◆ Handled transformation of text data into classifiable periods, designed and implemented many hyper-parameters
- ◆ Managed the project as a whole, met with researchers biweekly, Debugged, researched, and co-designed CNN model

TECHNICAL SKILLS

Languages: Python, JavaScript/TypeScript, SQL, C, C++, HTML/CSS
Frameworks & Libraries: React, React Native, Node.js, Express.js, Flask, Pandas, PyTorch, Hugging Face, tkinter
Technologies & Tools: MongoDB, PostgreSQL, Git, Perforce, Docker, GDB/Valgrind/Make, Batch/Bash scripts
Concepts: Agile Development, RESTful APIs, Machine Learning, Responsive Web Design, Full Stack Development