

Michael Gearhart

(707)-683-6288 | migearhart16@gmail.com | linkedin.com/in/michael-gearhart-a59aa7239 | github.com/mgearhart

EDUCATION

University of California, Irvine

Sep 2022 – Jun 2024

Bachelor of Science in Computer Science; **GPA: 3.76**

Courses: Principles in System Design, Computer Networks, Data Management, Operating Systems

College of the Redwoods

Aug 2020 – May 2022

GPA: 3.98

Courses: Object Oriented Programming, Database Management Systems, Systems and Network Admin

PROJECTS

Search Engine | *Python, Git*

Apr 2024 – Jun 2024

- Group Project - Developed a search engine in Python capable of handling tens of thousands of documents/webpages with response times under 100ms
- Developed a web crawler to retrieve over 50000 websites from the uci.edu domain beforehand
- Used an inverted index, partial indexing, indexed sequential access methods, and other techniques to minimize memory usage and maximize efficiency
- Calculated relevancy using a combination of methods including pagerank, tfidf scores, cosine similarity, and more.

Health Tracking App | *Java, Kotlin, Python, Google Firebase, Android Studio, Git*

Jan 2024 – Apr 2024

- Group Project - Developed an Android app using primarily Java and Kotlin in Android Studio. The app tracks users' progress and recommends exercises and foods based on user data
- Utilized Google Firebase to handle login authentication and store/retrieve user information
- Implemented a machine learning classifier in Python to provide recommendations based on user data and time of day

Checkers AI | *C++, Git*

Sep 2023 – Dec 2023

- Codeveloped an AI in C++ that plays checkers
- Achieved a top 20% win rate when put against fellow classmates
- Implemented a sophisticated tree search algorithm to choose the best move
- Employed object-oriented programming principles to represent pieces, moves, and the board

EXPERIENCE

Learning Assistant

Apr 2023 – Jun 2023

University of California, Irvine

Irvine, CA

- Facilitated group work and supported classroom of hundreds of students in their Data Structures and Algorithms class
- Assisted and gave guidance to students working on C++ projects in office hours

Cook

Aug 2019 – Sep 2022

Ferndale Pizza Co

Ferndale, CA

- Worked 30+ hours a week while attending school full time
- Became proficient in customer service, working well with others, and multitasking

TECHNICAL SKILLS

Languages: C/C++, Python, Java, Kotlin, SQL, MIPS Assembly, R

Developer Tools: Git, Windows, Linux, Virtual Box, Firebase, Visual Studio, Android Studio

Libraries: scikit-learn, pandas, NumPy, Matplotlib, NLTK, Beautiful Soup

Methodologies: Agile (Scrum, Kanban), Waterfall