Andrew (Kimhour) Chou

Greater Seattle Area | andrewchou949@gmail.com | (425) 397-1520 | GitHub | LinkedIn | Portfolio

SUMMARY

Aspiring Software Engineer with a strong foundation in Computer Science and experience in developing innovative solutions. Passionate about machine learning, data science, and creating solutions to enhance user experiences. Seeking a role to leverage my skills in dynamic software development environment.

EDUCATION

BS in Computer Science and Software Engineering with Minor in Economics   Aug 2023

University of Washington, Bothell   **Cumulative GPA: 3.74**

- Core Coursework: Data Structure & Algorithms with C++, Operating System, Hardware Computer Organisation, Software Engineering
- Relevant Coursework: Database Systems, Artificial Intelligence (AI), Principle of Human-Computer Interaction (HCI)

PROFESSIONAL EXPERIENCE

Web Developer Intern | *Remote*   **24/7 Teach**   Aug 2024 - Present

- Document existing code files and create detailed README file, enhancing developers' understanding and collaboration.
- Assist in enhancing security and error handling for **Flask** app endpoints, ensuring robust and error-resistant code.
- Develop a **monitoring feature** to regularly check endpoint health, improving system reliability and uptime.

Machine Learning/Data Science Volunteer | *Remote*   **Candidate Compass**   Aug 2024 - Present

- Automate political data collection using Python Script, storing them in JSON format for **Machine Learning** Purposes.
- Assist in building and fine-tuning an OPENAI-based mode, enhancing accuracy of political candidate recommendations.

Maths Tutor | *Shoreline, WA*   **Shoreline Community College**   Aug 2017 - Dec 2018

- Tutored approximately **30 students**, improving their understanding and academic performance in precalculus/calculus courses.
- Facilitated measurable improvements in test scores, resulting in a **15% increase** in average grades per students.

TECHNICAL SKILLS

Programming Languages	Python · C++ · Java
Web Technologies	Flask · HTML · CSS · Tailwind CSS · Firebase
Frameworks & Libraries	React · Django · Requests (Python) · Pandas · OpenAI Whisper · scikit-learn
Databases	PostgreSQL · MySQL · SQLite
Tools	AWS (Route 53) · RESTful API · Docker · Git Version Control · Google Cloud CLI
Soft Skills	Problem Solving · Communication · Teamwork · Adaptability · Time/Project Management · Attention to Details · Leadership

PROJECTS

Personal Finance Management Application with Fraud Detection (GitHub)   May 2024 - Present

- Developing a finance management application projected to reduce fraudulent transactions by up to **20%** using machine learning algorithm.
- Implementing secure user authentication for over **50 users**, comprehensive expense tracking, and intuitive data visualization.
- Utilizing **Django** for backend, **React.js** for frontend, and machine learning models, resulting in real-time fraud detection alerts.
- Training models with an **80/20 split** (training/testing) using dataset from **Kaggle**, ensuring robust performance and accurate fraud detection.

Skills: Python, Django, Machine Learning, Data Visualization, RESTful API, recharts

Discord Bot - Andrew's Bot (GitHub)   April 2024

- Led the development of a Discord, increasing server interaction by **25%**, overseeing all phases of the project lifecycle.
- Designed and implemented **5+ slash commands** with **JavaScript** and **discord.js**, enhancing user interaction capabilities.
- Integrated with fan-made Genshin API, enabling retrieval of **9+ types** of in-game specific data for over **30 users**, boosting server engagement.

Skills: JavaScript, discord.js, RESTful API, Project Management

Voice Recognition / Summary Web Application (GitHub)   February 2024

- Engineered a web application processing user audio file, achieving over **90%** transcription accuracy and **50%** summarization accuracy.
- Developed and styled user interface with **Create-React-App (CRA)** and **Tailwind CSS**, attracting **10+ active users** hosted on **Firebase**.
- Integrate **OpenAI Whisper** model and **ChatGPT3.5-Turbo** for backend functionalities, enabling audio processing and text generation.
- Crafted and deployed endpoints using **Flask**, with hosting on **Docker** and **Google Cloud Services**, ensuring high uptime and scalability.

Skills: Openai-Whisper, ChatGPT3.5-Turbo, Google Cloud (CLI), Docker, Flask, Firebase, React, Tailwind CSS

VOLUNTEERING AND COMMUNITY EVENTS

Student Volunteer | *Bothell, WA*   **2023 IEEE Information Reuse, and Integration for Data science**   Aug 2023

- Resolved technical issues with podiums and projectors during sessions, ensuring smooth presentations.
- Provided clear instructions to presenters and attendees, facilitating the event flow.
- Collaborated with conference organizers to complete assigned tasks efficiently, contributing to the event's success.