**Andrew (Kimhour) Chou**

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**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](https://github.com/andrewchou949/Personal-Finance-Management-Application)) 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](https://github.com/andrewchou949/discord-bot)) 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](https://github.com/andrewchou949/voiceRecognition))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.