

Andrew (Kimhour) Chou

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SUMMARY

Aspiring Software Engineer with a strong foundation in Computer Science and hands-on experience in developing innovative applications. Passionate about machine learning, data analysis, and creating solutions that enhance user experiences. Seeking a challenging role as a Software Engineer in a dynamic tech environment.

EDUCATION

BS in Computer Science and Software Engineering with Minor in Economics	August 2023
University of Washington, Bothell	Cumulative GPA: 3.74
<ul style="list-style-type: none"><u>Core Coursework</u>: Data Structure & Algorithms with C++, Operating System, Hardware Computer Organisation, Software Engineering<u>Relevant Coursework</u>: Database Systems, Artificial Intelligence (AI), Principle of Human-Computer Interaction (HCI)<u>Achievements</u>: Dean's List for six quarters since Spring Quarter of 2022	

TECHNICAL SKILLS

Programming Languages	Python · C++ · Java · TypeScript · SQL · HTML · CSS
Frameworks & Libraries	Flask · React · Django · Tailwind CSS · Flutter · discord.js · recharts
Tools & Technologies	AWS (Route 53) · RESTful API · Machine Learning · Github Actions · Firebase · Git Version Control · Linux · Google Cloud CLI Docker · OpenAI Whisper · ChatGPT3.5-Turbo
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
<ul style="list-style-type: none">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 machine learning models with an 80/20 split (training/testing data) using datasets sourced from Kaggle, ensuring robust model performance and accurate fraud detection.	
<i>Skills: Python, Django, Machine Learning, Data Visualization, RESTful API, recharts</i>	

Discord Bot - Andrew's Bot (GitHub)	April 2024
<ul style="list-style-type: none">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 the bot with fan-made Genshin Impact API, enabling retrieval of 9+ types of in-game specific data for over 30 users, boosting server engagement.Created comprehensive documentation and support, resulting in a noticeable increase in community contributions.	
<i>Skills: JavaScript, discord.js, RESTful API, Project Management</i>	

Voice Recognition / Summary Web Application (GitHub)	February 2024
<ul style="list-style-type: none">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.	
<i>Skills: Openai-Whisper, ChatGPT3.5-Turbo, Google Cloud (CLI), Docker, Flask, Firebase, React, Tailwind CSS</i>	

Polyglot Go (GitHub)	August 2023
<ul style="list-style-type: none">Led a 2-person team, fostering effective and collaboration to create a language learning application used by around 20 users for flashcards, translation, and word-matching.Utilized Flutter framework's Dart code to create interactive frontend UI and core backend functionalities.Conducted user testing sessions with 10+ participants, gathering valuable feedback to iterate and improve app's features and usability.Set up a database storage for the application through Google Firebase, ensuring seamless data handling and retrieval for 100+ flashcards.Received positive user feedback, with an average rating of 4.5 stars on initial testing reviews.	
<i>Skills: Dart, Firebase, Git Version Control (GitHub), SQL</i>	

PROFESSIONAL EXPERIENCE

Maths Tutor Shoreline, WA	Shoreline Community College	August 2017 - December 2018
<ul style="list-style-type: none">Assisted approximately 30 students with precalculus and calculus courses.Facilitated measurable improvements in test scores, resulting in a 15% increase in average grades per students.		

VOLUNTEERING AND COMMUNITY EVENTS

Student Volunteer Bothell, WA	2023 IEEE Information Reuse, and Integration for Data science	August 2023
<ul style="list-style-type: none">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.		