

Christie Yiu

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PROFESSIONAL SUMMARY

Software engineering student at the University of Washington Bothell specializing in full-stack development and applied AI. Experienced building cross-platform mobile applications, scalable backend systems, and intelligent automation pipelines using Python, TypeScript, React, Next.js, and modern LLM APIs. Demonstrated ability to take production-style applications from concept to deployment, with hands-on experience integrating cloud infrastructure, real-time data systems, and generative AI.

EDUCATION

University of Washington

B.S. Computer Science & Software Engineering.

Bothell, WA

Expected June 2027

Green River College

Transfer Studies — Computer Science & Mathematics. Dean's List — 5 quarters.

Auburn, WA

2023 – 2025

SKILLS

Languages: Python, TypeScript, JavaScript, Java, C++, SQL, HTML/CSS

Frameworks & Libraries: React, Next.js, React Native, Expo, Tailwind CSS, Three.js, React Three Fiber

Cloud & Backend: Supabase, PostgreSQL, REST APIs, API Integration, Authentication, Real-Time Synchronization

AI & Machine Learning: Large Language Models (LLMs), OpenAI API, Anthropic Claude API, Google Gemini API, Retrieval-Augmented Generation (RAG), Semantic Search, Vector Embeddings, Prompt Engineering, AI Workflow Automation, Whisper, MoviePy, Fish Audio, Claude Code, Cursor

Tools: Git, GitHub, Docker, Xcode, Capacitor, TestFlight, VS Code

Human Languages: English (fluent), Cantonese (native), Mandarin (fluent), Japanese (intermediate)

CERTIFICATIONS

- AWS Certified AI Practitioner (Expected September 2026)
- AWS Certified Cloud Practitioner (Expected October 2026)

PROJECTS

Syntony <http://syntonyapp.com>

Personal Project + Independent Study (CSS 499)

- Architecting a cross-platform AI-powered mobile application that delivers personalized urban exploration, social discovery, and intelligent activity recommendations through a scalable full-stack architecture.
- Engineered secure backend services featuring user authentication, cloud databases, real-time synchronization, direct messaging, multiplayer interactions, and AI-powered moderation using Supabase.
- Designed and implemented a semantic Retrieval-Augmented Generation (RAG) pipeline using Gemini text-embedding-004, pgvector cosine-similarity retrieval (HNSW indexing), and Google Gemini to generate grounded weekly insight reports from users' activity history.
- Integrated multiple REST APIs, including Google Gemini and Google Places, to generate personalized location-based quests, recommendations, and contextual AI experiences.
- Shipping the application for cross-platform release through Capacitor, targeting iOS (TestFlight/App Store) and Google Play.
- Live demo: syntonyapp.com

AI Content Factory

Personal Project

- Built an automated Python pipeline that researches topics, generates AI scripts, synthesizes dialogue, composes captioned MP4s, and publishes content through the Instagram API.
- Integrated Gemini 2.5 Flash, MoviePy, Whisper, Fish Audio, and Instagrapi.
- Launched the account and achieved 4,000+ organic views within the first day.

SeaPark <https://github.com/Christiewmy1/UWBHackathon26-SeaPark.git>

UWB Hacks Hackathon

- Built a real-time Seattle parking app (React Native, Expo) integrating live city datasets into interactive maps with street parking, garages, and availability heatmaps.
- Designed a crowdsourced confidence-scoring system where user reports drive live availability, falling back to predictive estimates when data is more than 30 minutes old.
- Built a Python/TypeScript backend over Seattle Open Data APIs (parking, garage, meter data) with Firebase storage and filtering by price, distance, and time.
- GitHub: github.com/Christiewmy1/UWBHackathon26-SeaPark.git