

JAMES HOANG

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github.com/James-hg

jameshoang.com

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TECHNICAL SKILLS

- Programming Languages: Python, Java, C++, Javascript, Typescript, SQL
- Tools: FastAPI, React, Gemini API, REST APIs, Google Cloud APIs, Maven, AWS, Azure, Docker

PERSONAL PROJECTS / HACKATHONS

Trip Planner Website - jameshoang.com/pathfinder Oct 2025

StormHacks, SFU, Burnaby, BC

- Delivered a fully functional travel planning app in a 24-hour hackathon, showcasing quick backend design and AI integration.
- Managed natural language travel requests to create structured itinerary edits using custom Gemini prompt engineering and backend orchestration.
- Combined LLM outputs with real-time Google Maps data to enable intelligent location-aware recommendations.

Novel to Audiobook - github.com/James-hg/novel_to_audio Jul - Aug 2025

Personal Project

- Automated the conversion of web novels into audiobooks by building a scalable Python pipeline, eliminating manual text processing and narration steps.
- Enhanced audio coherence by integrating Gemini API for text cleaning and chunk optimization, transforming noisy raw content into TTS-ready inputs.
- Enabled reliable long-form audio synthesis by implementing efficient text segmentation and orchestration with Google Cloud Text-to-Speech.

Interactive Course Website - jameshoang.com/iat210boardgame May - Jul 2025

IAT 210, SFU, Burnaby, BC

- Developed and launched a responsive project website using React and JavaScript, with automated deployment and iterative updates enabled by Vercel and GitHub.

Quizizz Automation Oct - Dec 2022

Personal Project

- Built a Python automation script to parse teacher-provided Word documents and convert multiple-choice questions into Quizizz-compatible Excel files, eliminating repetitive manual data entry.
- Reduced quiz preparation time from ~1 hour per 100 questions to a few minutes, significantly improving efficiency for classroom revision workflows.
- Designed flexible parsing logic to accurately extract questions and answer choices, ensuring reliable imports into the Quizizz platform.

LEADERSHIP EXPERIENCE

PEER TUTOR Sept 2025 - Present

Computing Science Peer Tutoring Program, SFU, Burnaby, BC

- Tutoring support for first-year CMPT courses, mentoring students through foundational programming concepts and debugging strategies, contributing to improved understanding and academic performance.

EDUCATION

SIMON FRASER UNIVERSITY, BURNABY, BC Sept 2024 - Present

- Computing Science