

# JAMES HOANG

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[github.com/James-hg](https://github.com/James-hg)

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## TECHNICAL SKILLS

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- 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

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**Trip Planner Website** - [jameshoang.com/pathfinder](https://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](https://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](https://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

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**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

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**SIMON FRASER UNIVERSITY, BURNABY, BC** Sept 2024 - Present

- Computing Science