Quentin McKay

Full-Stack Web Developer

Contact

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Education

2023   **Diploma of IT (Web Development)**
Coder Academy

2007   **Bachelor of Music (Production)**
Australian Institute of Music

Key Skills

- Frontend / Backend Development
- UI / UX Design
- Database Management
- Testing and Debugging
- Communication
- Continuous Learning

Tech Skills

- **Languages**: JavaScript, Python, Ruby, C#, C++, Java, Bash, HTML, CSS, SCSS, Tailwind, Node, TypeScript

- **Frameworks**: React, Next.js, Express, Flask, Vue

- **Databases**: Postgres, MySQL, MongoDB

- **Tools**: Git, GitHub, VSCode, Vite, Postman, Insomnia, Netlify, Render

Summary

Emerging software engineer skilled in designing and implementing full-stack web applications. With a passion for continuous learning, keen eye for detail, and love of clean, elegant code, I strive to create innovative and efficient software solutions. Seeking opportunities to contribute my technical expertise and expand my knowledge in a dynamic and growth-oriented environment.

Key Projects

AI Quiz Generator   [https://ai-quiz-generator-next.vercel.app/]

- AI-powered multiple choice quiz generator
- Features include GPT-3.5 stream response handling and visuals, multiple choice quiz implementation, loading screen with web dev facts, and end screen with score-based gifs and messages
- Built with Next.js / Tailwind / OpenAI

ProjectShare   [https://projectshare-frontend-react.onrender.com/]

- AI-infused project sharing app enabling users to easily share and find GitHub repositories
- Features include GPT-3.5 and DALL-E integration, image storage using Cloudinary, user login and authentication
- Built with React / Tailwind / Flask / Postgres / OpenAI

Relevant Previous Employment

Coder Academy (K-12 Education Program)   2019 – 2020

- Designed / delivered online physical computing course using Micro:bit
- Designed / delivered 12-week Python course at Kambala Girls High School
  - physical computing (MicroPython) and creative coding (Processing.py)

Education and Arts Alliance   2010 – 2022

- Co-owned and operated 2 private music lesson studios with 300+ students
- Helped train and manage a staff of ~10 teachers
- Taught private / group music lessons to students of all ages both face-to-face and online

Additional Projects

Pendulum Wave Audio-Visualizer [https://pendulum-wave.netlify.app/]

- Audio-visual simulation of a pendulum wave

- Features include a custom particle system, MIDI out with user-definable musical scale, dual sine oscillators, and custom style controls

- Built with p5.js / Tone.js / WebMIDI / dat.gui

Pokemon Battler [https://pokemon-battler-hackathon.netlify.app/]

- Pokemon battling app built with React during a 1 week hackathon collaboration

- Features an implementation of the official Pokemon combat algorithm, custom audio player, and animated battle screen

- Built with React / Tailwind

World Cup Country Scraper Quiz [https://replit.com/@QuentinMcKay/Country-Scraper-Game?v=1]

- Python terminal-based web-scraping quiz game

- Features include quiz data scraped in realtime from Wikipedia, word coloring based on country flags, and CSV-based high scores list

- Built with Python / BeautifulSoup

Syntax Highlighter Chrome Extension [https://chrome.google.com/webstore/detail/code-syntax-highlighter-f/cmbplgilmheonekccfhdoljbaenlkhff]

- Chrome extension that applies syntax highlighting to code blocks in the Ed learning platform

OpenAI Text-to-Image Generator [https://openai-image-generator-react-frontend.onrender.com/]

- Full-stack text-to-image generator using OpenAI's DALL-E model

- Built with React / Flask / OpenAI

Distraction - Unity Game [https://distraction.netlify.app/]

- Top-down shooter game prototype built in Unity

- Features include menu screen, 12 time-based stages, leveling system, custom shaders, and all original music

- Built with Python / BeautifulSoup