Matthias Jason Kee

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Education

University of Calgary   Sep 2022 – Apr 2025

Bachelor of Science in Computer Science

Relevant Coursework: Artificial Intelligence, Data Structures and Algorithms, Database Management Systems, Computer Networks, Web-Based Systems, Software Process and Project Management.

Skills

Languages: Java, C, C++, JavaScript, TypeScript, Python, SQL, HTML, CSS
Frameworks: Node.js, React, React Native, Next.js, Express, Django, Flask
Tools: AWS, GitHub/Git, Docker, Figma
Databases: PostgreSQL, MySQL, MongoDB

Professional Experience

Enlighten Media   January 2024 – Present

Full-stack Developer

- Developed the company's website with a focus on creating a modern, user-friendly interface to boost brand visibility by 87% and improve user experience.
- Designed and implemented web pages, ensuring smooth functionality by managing both front-end and back-end components.
- Designed and implemented an intuitive content management system (CMS) to optimize and streamline the website's content management process.

Projects

Resident Connections | *Python, Flask, PostgreSQL, Next.js, TypeScript, Tailwind CSS*

- Developed a comprehensive web application to visualize Southern Resident orca history, improving accessibility to whale lineage data for researchers.
- Optimized PostgreSQL queries to enhance database performance and efficiency.
- Implemented a RESTful API to process backend requests and deliver data to the frontend.
- Developed an interactive network graph to visualize whale relationships, enabling users to explore connections.

AI Soccer League Scheduler | *Java, Artificial Intelligence*

- Built an AI soccer league scheduler using an AND-tree search model, efficiently producing valid schedules while optimizing hard and soft constraints.
- Collaborated in a small team to design and refine the search algorithm, improving efficiency and demonstrating expertise in AI search techniques and algorithmic problem-solving.

TuneTeller | *Node.js, React, JavaScript, Express, Spotify API*

- Developed a full-stack application to provide users with insights on their *Spotify* listening habits.
- Integrated RESTful API calls to the *Spotify API* to fetch and display various user data points.
- Designed an engaging dashboard that highlights user statistics, including top artists and tracks and playlist and track analytics.