Jeffrey Chow

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EXPERIENCE

Web Developer, Co-op   Sep. 2024 – Apr. 2025
Invoke Digital   *Vancouver, BC*

- Developed and implemented new full-stack features for Chunks (formerly Incrowd), a platform that generates short-form social media content from long-form video content, enhancing user workflows and content management.
- Led development for multiple client prototyping projects such as Parpro, an AI receipt processor and journal entry generator, and Mustered, an AI chat bot aimed to assist users by reducing the mental overhead needed to achieve their career goals.
- Improved the stability and functionality of a serverless web application backend through proactive bug resolution and code enhancements, such as reducing video conversion times by leveraging AWS MediaConvert scalable resource allocation.
- Collaborated with product designers, managers, strategy executives, and clients to translate design concepts into functional web components, ensuring alignment with project goals and achieving key acceptance criteria.

Software Developer, Co-op   Sep. 2022 – Apr. 2023
Peloton Technologies   *Victoria, BC*

- Designed, developed, and seamlessly integrated a one-time payment collection feature into the existing client platform, meeting a high-priority demand from clients and becoming a new sales emphasis for the company.
- Reduced manual testing time from 1 hour to 10 minutes by implementing test suites and adding data annotations for new methods, enhancing efficiency by preemptively testing for potential bad data inputs.
- Enhanced user experience by implementing additional client-side and server-side validation coupled with clear error messages, reducing calls to customer support, and empowered representatives to resolve issues more efficiently.
- Practiced agile methodologies, collaborating with cross-functional teams to deliver iterative releases and ensure alignment with project goals and client requirements.

TECHNICAL PROJECTS

YouTube Captions Translator | *JavaScript, TailwindCSS, AWS, HTML*   Jul. 2023 – Aug. 2023

- Designed and developed a Chrome extension that enables live translations of YouTube video captions into a user-specified language, enhancing content accessibility for non-native speakers.
- Independently managed the entire development cycle, leveraging technologies such as JavaScript, HTML, and TailwindCSS to create a user-friendly interface.
- Implemented a simple secure backend using AWS Lambda and API Gateway to obfuscate API Authentication keys, ensuring safety and integrity of third-party integrations.
- Adhered to extension development standards by referencing Chrome extension documentation.

NBA Match Predictor | *Python, PostgreSQL, SQLAlchemy, pandas, Scikit-Learn*   Jul. 2022 – Sep. 2023

- Developed a command-line application that predicts NBA match winners and spreads using a logistic regression machine learning model, demonstrating a prediction accuracy over 57% for spreads and over 70% for game winner.
- Created a web scraper to retrieve tabular statistics from webpages using the Beautiful Soup library.
- Engineered a relational data model to manage diverse cardinalities across historical NBA statistics, including seasons, teams, players, and games, utilizing SQLAlchemy for object-relational mapping.

TECHNICAL SKILLS

Languages: Python, JavaScript/TypeScript, C#, SQL, HTML, CSS, Java, C/C++,
Frameworks: Next.js, .NET Framework, Tailwind CSS
Development Tools: AWS (e.g. S3, Lambda, API Gateway, AppSync, DynamoDB, RDS, etc), Vercel, Git, Docker
Libraries: React, ffmpeg, SQLAlchemy, pandas, google-genai

EDUCATION

University of British Columbia   Vancouver, BC
Bachelor of Computer Science, Integrated Computer Science   *Sep. 2021 – May 2025*

University of British Columbia   Vancouver, BC
Bachelor of Science, Biochemistry   *Sep. 2015 – May 2020*