

Jason Feng

Full Stack Developer



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SUMMARY

As a Full-Stack Developer with 2 years of experience, a solid foundation in web design processes and a proven track record of delivering high-quality code and innovative solutions within agile development teams. My enhanced proficiency in JavaScript allows me to create dynamic and captivating web elements that elevate user experiences. Adept at managing project progress and code repositories using tools like Git, ensuring seamless collaboration and efficient code management. Specialised in fine-tuning AI models and integrating different models to meet specific needs.

TECH STACK & CERTIFICATION

Programming Language:	Python, PHP, Node.js, TypeScript, C#, Java
Web Development:	React, Tailwind.css, Bootstrap, Next.js, Django, JavaScript
Databases:	MySQL, MongoDB, SQLite3
DevOps:	AWS, Azure, GitHub Actions, Docker
AI & ML:	TensorFlow, PyTorch, OpenAI API, Embedding DB, LoRA model, LangChain
Other:	React Native, Agile Development, RESTful API, TDD, OOP

AWS Certified Developer Associate
Scrum Fundamentals Certified (SFC)

EXPERIENCE

- ◆ **Programmer** at YNW Web and Apps 09/2024 - present
 - Implemented robust **Multi-Factor Authentication** (MFA) for user login, enhancing account security by integrating multiple verification methods including Authenticator apps, SMS, and email options.
 - Engineered a secure password recovery system featuring email-based verification and password reset functionality, ensuring user account protection while providing a seamless recovery experience.
 - Developed and trained custom LoRA (Low-Rank Adaptation) **AI models**, enabling the generation of tailored images to meet specific project requirements and enhance visual content creation capabilities.
 - Created a comprehensive email subscription system, including features for user subscription, targeted news and promotional content distribution, and a streamlined unsubscribe process, improving client engagement and compliance with email marketing best practices.

- **Software Developer** at Greenest Sustain & Cultivx 01/2024 - present
 - Engineered an optimised **CI/CD** pipeline using GitHub Actions, automating the packaging and deployment process for mobile applications to **AWS** S3 and the App Store. This streamlined workflow significantly improved development efficiency and release consistency.
 - Developed and integrated a real-time object detection model using **TensorFlow** and **PyTorch** into a **React Native** project, enhancing the app's visual recognition capabilities and user experience.
 - Created a **Chrome extension** for GitHub Actions utilizing **React** and **Tailwind** CSS, improving workflow visibility and management for development teams.
 - Served as a mentor to junior interns, providing guidance and support to foster their professional growth and contribute to a collaborative team environment.
- **PHP Programmer** at Op2ma 10/2022 - 12/2023
 - Led the enhancement of a **PHP**-based sales data platform, implementing KPI dashboards for internal use and client projects, significantly improving data visualization and decision-making processes.
 - Managed client relationships throughout the project lifecycle, from initial requirements gathering to final delivery. Facilitated clear communication channels, translated client needs into technical specifications, and successfully delivered the completed project after thorough development and testing phases.
 - Elevated the platform's user interface and experience by integrating **Bootstrap** and **jQuery**, resulting in improved system usability and client satisfaction.
 - **Git CLI** for efficient version control, effectively identifying and resolving code conflicts to maintain project integrity.
 - Implemented comprehensive quality assurance measures, including unit and regression testing for each new feature, ensuring robust and reliable software delivery.
- ▲ **Software Development Engineer** Internship at iFLYTEK 02/2020 - 07/2020
 - Contributed to a cross-functional team in developing robust back-end RESTful APIs using **Java**, **MySQL**, and **SpringBoot**, enhancing application functionality and system integration.
 - Maintained comprehensive API documentation, ensuring clear communication and facilitating seamless collaboration between development teams and external partners.
 - Spearheaded system interface optimization efforts, resulting in a 15% improvement in query performance and overall system efficiency, significantly enhancing user experience and data retrieval speeds.

PROJECTS

✦ Chrome Extension

- Engineered a custom **Chrome extension** using **React** to enhance GitHub Actions workflow monitoring, streamlining **DevOps** processes and improving development efficiency.
- Implemented real-time status display functionality, allowing DevOps engineers to view GitHub Actions workflow statuses directly on repository pages without navigating to separate running pages.
- Developed a robust notification system that delivers instant Chrome desktop alerts for unexpected job terminations, providing a more immediate and noticeable alternative to traditional email notifications.
- Tailored the extension's features based on specific client requirements, ensuring optimal usability and relevance for DevOps teams.
- Enhanced developer productivity by reducing the need for constant manual checks of workflow statuses, enabling quicker response times to CI/CD issues.

🟢 AI-driven Notebook Application

- Developed an innovative AI-powered note-taking and knowledge management system, leveraging OpenAI's Assistant models to provide personalised ChatGPT services.
- Implemented advanced natural language processing techniques, including word embedding, to create a dynamic knowledge base from user notes, enabling AI to answer professional queries with context-aware responses.
- Engineered a robust full-stack application using **Django** for the backend and **React** for the frontend, ensuring seamless integration with the **OpenAI API** and delivering a responsive user interface.
- Designed and implemented an AI-driven summarization feature, automating the process of distilling key information from user notes to enhance knowledge retention and retrieval.
- Successfully deployed the application on **AWS EC2**, ensuring scalability and high availability for users accessing the service.

🟡 Website Simulator for Visual Language Navigation

- Engineered an innovative voice-controlled web browser using **Python** and headless **Selenium**, designed to enhance web accessibility for visually impaired users and enable natural language interaction (**NLP**) with web content.
- Developed a sophisticated system to emulate human-like mouse and keyboard operations, allowing users to navigate and interact with websites using only voice commands.
- Leveraged the Amazon Mechanical Turk (AMT MTurk) platform to train and refine the voice recognition model, significantly improving the accuracy and responsiveness of the system to diverse user voice commands.
- Created a seamless user experience that allows individuals to browse the web, fill out forms, and interact with various web elements using solely voice interaction, markedly improving digital accessibility.

▼ Document Verification on Blockchain

- Designed and implemented a robust document integrity verification system utilizing **blockchain** technology to ensure secure transmission of sensitive information.
- Developed a **Node.js** application to generate unique hash codes for object documents, providing a reliable method for document authenticity verification.
- Engineered a secure anchoring mechanism to store document hash codes on the Hedera blockchain, leveraging **MongoDB** for efficient data management and retrieval.
- Implemented a comprehensive verification process allowing recipients to validate document integrity by comparing file hash values against blockchain records, ensuring detection of any unauthorised alterations.
- Created functionality to track and verify document change history, enhancing transparency and traceability throughout the document lifecycle.

EDUCATION

Master of Computing and Innovation
University of Adelaide

09/2020 - 12/2022

Bachelor of Information and Computer Science
Changzhou University

09/2015 - 09/2019

VOLUNTEERS

Coalition for the Protection of Greyhounds at Greyhoundcoalition.com

- Served as a volunteer data analyst, leveraging advanced database scripting skills to enhance data management and analysis capabilities.
- Led a critical database migration project, successfully transitioning from SQLite3 to MySQL. This initiative resulted in a significant performance improvement, increasing query processing efficiency by over 10% for large-scale datasets.