

DANIEL CHEN

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SKILLS

Programming Languages	Java, Python, TypeScript, SQL
Frameworks/ Libraries	Angular & Next.js, Spring Boot, Django, Scikit-learn
Tools	Git, Octopus Deploy, TeamCity (CI/CD), Jira, Cursor (AI IDE), Vim (Shortcuts), PostgreSQL
Certifications	Amazon Associate Developer, Secure Code Warrior - Appsec Champion
Spoken Languages	English (Native), Mandarin (Conversational), Cantonese (Conversational)
Other Skills	Agile, Scrum, Software Design and Architecture, Microservices, TDD

WORK HISTORY

Software Engineer Bankwest / Commonwealth Bank of Australia Feb 2021 - Present

- Developed instant "on-upload" Naive Bayes machine learning model within Java Spring Boot that lifted auto-categorisation recall (true-positive) rates of critical bank documents from 42.7% up to a rate of 90%. This led to a significant decrease in manual categorisation and subsequently resulted in a nomination for a national individual excellence award at my parent company
- "Stream Lead" on developing Bankwest's first LLM powered broker chat application, which was delivered to production in two months (fastest greenfield project in bank history). The role involved technical design and development on the creation of a Java Spring Boot API and an Angular frontend that consumed SSE events from streamed LLM output
- Technical Owner on two internal tools that automated the tracking of tech health and lead time to change metrics for hundreds of systems bankwide. This allowed technology executives to easily find reporting on the health of their systems through a UI interface
- Developed and led multiple learning initiatives for 30+ graduates, including monthly tech talks, knowledge documentation, and a book club
- **Awards:** Hack Day Winner (2024), National Individual Excellence Award Nominee (2024)

Software Engineer (Student) Australian Bureau of Statistics Nov 2020 - Feb 2021

- Developed CI/CD pipeline in Jenkins for the internal statistics tracking software to run unit and integration tests

HPC IT Officer DownUnder Geosolutions Jan 2018 - Oct 2019

- Diagnosed and repaired networking and performance issues with underperforming High-Performance Computers in the 600+ node machine room

PROJECTS AND OTHER WORK

LLM Powered Chinese Reading Application

- Application developed using Next.js and Python that uses OpenAI large language models to generate custom Chinese learning material, pronunciation and translations for the user's exact fluency level based on previously known vocabulary
- Developed custom asynchronous LLM chaining request strategy with Python asyncio to optimise serving of per word and sentence Chinese to English translations (20-30s total response time)

Freelance Web Development

- Custom responsive web development for small-medium sized businesses. On-page SEO and performance optimisation led to increased brand awareness and traction through Google search.

EDUCATION

Bsc Computer Science/ Finance UWA University of Western Australia - GPA: 6.1/7.0

- *Volunteering Activities:* TEDxUWA Head of Events/ Communications, English for Refugees Tutor, UWA Basketball Club Events Manager, WAUC Charity Consultant

Graduate Diploma of Cyber Security Curtin - GPA: 7.0/7.0 (Partially Complete)

Upper Intermediate Mandarin Course Taiwan Language Institute