

# Andrew Zhang

+61 420 622 654 | +64 21 081 50813 | andrewzhang0313@icloud.com

www.linkedin.com/in/andrew-zhang-544b16296 | https://github.com/Andrew-Zhang-Repository

## SUMMARY

Software developer with experience in mobile application development, data analysis, and full-stack web applications using React, FastAPI, and AWS cloud services.

## EXPERIENCE

### Online Data Analyst

*TELUS Digital*

September 2025 – January 2026

*Melbourne, Victoria*

- Processed and labeled 50-100 data records daily across CSV, audio, and text formats for ML model training
- Designed and maintained 5 Tableau dashboards to visualize data quality metrics for stakeholder reviews
- Structured datasets within MySQL and PostgreSQL, ensuring data integrity for downstream analysis pipelines
- Optimized SQL queries by refactoring joins and adding indexes, reducing average query execution time
- Used Excel and Microsoft 365 to aid in creating data info-graphics and diagrams

### Mobile Application Developer

November 2025 – December 2025

*Porterversetech*

*Melbourne, Victoria*

- Built 2 cross-platform mobile apps for iOS/Android in TypeScript, delivering 6 core features including authentication, real-time data sync, and push notifications
- Architected backend with REST APIs, secure token storage, and implemented 15+ unit tests for critical paths

### After School Facilitator and Head Teacher

October 2024 – January 2026

*Codecamp*

*Melbourne, Victoria*

- Led 30+ coding sessions teaching JavaScript, Scratch, electronics, and robotics to classes of up to 25 students
- Developed structured lesson plans and coordinated weekly with management on curriculum improvements

## PROJECTS

### GoodBrother (Private Collaborative Project) | Python, React, Docker

- Constructed full-stack deepfake detection app with FastAPI and React, processing images in under 5 seconds
- Trained and deployed an ensemble of 3 AI models to classify deepfakes and AI-generated images
- Integrated MinIO, PostgreSQL, and Redis to handle async task queues and secure file storage
- Configured GitHub CI/CD pipelines with automated testing achieving 75% code coverage

### Photo Insights Gallery | FastAPI, React, Python, AWS, Redis

- Developed photo gallery supporting 500+ images per user with authentication and analysis dashboard
- Integrated 7 AWS services (Lambda, Cognito, IAM, S3, Rekognition, DynamoDB, CloudFront) for serverless architecture
- Implemented Redis caching layer, reducing repeated API calls and improving response times by 30%

### CSV-CLEAN | LangChain, Docker, Redis, GitHub Workflows, PostgreSQL

- Created a CSV analyzer and cleaner using LangChain and OpenAI, handling files up to 5MB with 30+ columns
- Created Streamlit UI enabling users to analyze, clean, and export datasets in 3 steps
- Implemented bcrypt password hashing and session-based authentication with PostgreSQL backend

## TECHNICAL SKILLS

**Languages:** Java, Python, C, SQL, JavaScript, TypeScript, HTML/CSS

**Frameworks:** React, Node.js, Flask, FastAPI, LangChain

**Cloud & DevOps:** AWS , Azure, Docker, Git, GitHub Workflows

**Data & Analytics:** Pandas, PostgreSQL, Redis, Power BI, Tableau, PyTorch, Scikit-learn, Microsoft 365, Excel

## EDUCATION

### University of Melbourne

*Bachelor of Science in Computing and Software Systems*

*Melbourne, Victoria*

*February 2022 – December 2025*

### Kristin School

*International Baccalaureate Diploma*

*North Shore, Auckland*

*February 2020 – November 2021*