Andrew Zhang

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Personal Portfolio : https://portfolio.andrewzhang0313.workers.dev/

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 — September 2025 – January 2026
TELUS Digital — *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 – January 2026
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 – October 2025
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 — Melbourne, Victoria
Bachelor of Science in Computing and Software Systems — *February 2022 – December 2025*

Kristin School — North Shore, Auckland
International Baccalaureate Diploma — *February 2020 – November 2021*