Kent Ngo

BOX HILL VIC 3128
LinkedIn: https://www.linkedin.com/in/ngohainnam/ Email: ngohainnam@gmail.com
GitHub: https://github.com/ngohainnam Mobile: (+61) 472 900 051
Digital Portfolio: https://myportfolio-one-alpha-81.vercel.app/

SKILL SUMMARY

Programming Languages: Python (Main), Java, C#, C++, C, TypeScript, Dart (Basic)
Web & Frontend: HTML, CSS, JavaScript, React, Next.js, Tailwind CSS, REST APIs, JSON
Frameworks & Libraries: TensorFlow, Scikit-Learn, Pandas, NumPy, Matplotlib, YOLO, FastAPI
Databases & Data Tools: MySQL, MongoDB, Tableau, Jupyter Notebook
Tools & Platforms: Git, GitHub, Docker, VSCode, Figma, Postman, Windows PowerShell, Project Management (Trello, Jira, GitHub Projects, Slack), Puter.js
Cloud & Deployment: AWS, DigitalOcean
Certifications: Microsoft Office Specialist (PowerPoint, Word, Excel)
Interests: Programming, Computer Vision, Data Science, Artificial Intelligence, Machine Learning, Deep Learning, Data Analysis

EDUCATION

Deakin University Melbourne, VIC
Master of Data Science (Professional); GPA: 3.5 **August 2025 - July 2027**

Swinburne University of Technology Melbourne, VIC
Bachelor of Computer Science (Artificial Intelligence); GPA: 3.75 **July 2023 - August 2025**
Diploma of Information Technology GPA: 4.0 **October 2022 - July 2023**

WORK EXPERIENCE

Software Engineer Intern | Aubot Pty Ltd **February 2025 - May 2025**

- Designed and implemented both programming content in Python and C, including lectures and hands-on exercises.
- Conducted user testing and verified bugs in exercises to ensure accuracy and effectiveness.
- Took initiative in visualizing complex programming concepts to enhance student understanding, leading to positive recognition from the team and CEO for independence, attention to detail, and high-quality content delivery.

PROJECTS

CloudEvents RSVP Platform| Website | GitHub **May 2026**

- Built a serverless event RSVP platform using AWS Lambda, API Gateway, S3, CloudFront, Aurora RDS, and DynamoDB
- Designed REST APIs for event management and RSVP submission with Node.js Lambda functions
- Used DynamoDB transactions to ensure atomic RSVP updates and prevent duplicate submissions
- Hosted frontend on S3 with CloudFront CDN for fast global delivery
- Implemented hybrid SQL + NoSQL architecture for structured events and scalable RSVP tracking
- Monitored and debugged backend using AWS CloudWatch logs

CoinPulse – Real-Time Cryptocurrency Dashboard | Website | GitHub **April 2026**

- Built a cryptocurrency dashboard using Next.js 16 and TypeScript, delivering live market insights with a responsive UI
- Integrated Binance WebSocket streams to provide real-time price updates, trades, and candlestick (OHLCV) data
- Implemented interactive financial charts using lightweight-charts, supporting multiple time intervals for market analysis
- Fetched trending coins, categories, and metadata via CoinGecko API

Roomify – AI Floor Plan to 3D Rendering Web App | Website | GitHub **April 2026**

- Built a full-stack system with React 19, TypeScript, and React Router v7 (SSR) for fast and scalable user experience
- Developed an AI-powered web application that converts 2D floor plans into photorealistic 3D renders
- Integrated Puter.js for authentication, cloud storage, enabling users to save and manage rendering history
- Implemented AI pipelines allowing users to control design style, lighting, and furniture via dynamic prompt engineering
- Designed an interactive before/after comparison tool using image slider for visual validation of AI outputs
- Developed community features including public gallery sharing and private project management with pagination

- Containerised the application using Docker for consistent deployment across cloud platforms

KASH - AI Personal Finance Dashboard | Website | GitHub **April 2026**

- Built a full-stack finance dashboard using Next.js (App Router) and TypeScript to analyse CSV bank statements
- Used PostgreSQL and Prisma to store user transactions, budgets, and notes securely per account
- Implemented CSV parsing and automatic transaction categorisation
- Built AI assistant using Google Gemini API for natural language financial insights
- Designed responsive UI with Tailwind CSS, shadcn/ui, and Lucide React
- Project made for fun to make the final products for Swinburne

RAGtivity - Online RAG Chatbot | Website | GitHub **February 2026**

- Containerised the system using Docker and deployed on DigitalOcean for reliable and consistent cloud execution
- Built and deployed a RAG pipeline using semantic chunking and embedding-based retrieval to improve LLM response accuracy
- Stored embeddings, documents, and user data in MongoDB, integrated with S3 bucket for scalable data storage
- Developed a CI/CD pipeline to automate testing, integration, and deployment workflows

Face Recognition Attendance System | Software | GitHub **June 2025**

- Developed a real-time face recognition attendance system using computer vision techniques, with features for facial expression, age, gender detection, and anti-spoofing.
- Trained classification-based CNN models with and without hyperparameter tuning; tuning improved test accuracy by 8%, reduced test loss by 0.36, and increased AUC from 0.7539 to 0.7685.
- Built a user-friendly desktop GUI in Python using Tkinter, integrating live webcam input and multiple ML models for accurate and secure identity verification.

OEA Performance Analysis | Tableau | GitHub **June 2025**

- Cleaned and prepared sales, customer, and product data using Tableau Prep for accurate analysis.
- Built interactive Tableau dashboards with calculated fields and parameters to track KPIs, forecast trends, and simplify filtering.
- Highlighted key trends like a 4.6% profit rise, 3.4% cost cut, and a 31.2% client drop, revealing retention issues despite cost control.
- Applied RFM segmentation to show 40% of high-revenue clients were low-margin, supporting a shift toward high-potential mid-tier customers.

AI-Driven Expense Tracking | Android Flutter Application | GitHub **August 2024 - June 2025**

- Working closely with a team of seven to create the App
- Spearheaded development of a user-friendly financial management app in Flutter, designed specifically for users with low digital literacy.
- Led and coordinated a cross-functional team of seven developers, collaborating directly with clients from Swinburne and Monash Universities to ensure clear communication and delivery.
- Directed integration of AI-powered expense tracking and categorization, leveraging Firebase for secure cloud backup and user authentication.

HOBBIES & INTERESTS

- Travel
- Card games
- Chess
- Music
- Team building

REFERENCES

Available upon request