

STEFAN NIO

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Education

The University Of Western Australia

Dec 2024

Bachelor of Advanced Computer Science (Honours), Major in Artificial Intelligence

Perth, WA

Admitted within top 8% nationally — **GPA: 5.75**

Relevant Courses: Data Structures & Algorithms, Software Engineering with Java, Systems Programming, Machine Learning, Deep Learning, Computational Modeling, Computer Vision, Algorithms in Agents and AI, Agile Web Development

Professional Experience

Interlinked Global Advisory

Aug 2025 – Present

Founding Team & Product Lead Engineer

Singapore

- Designed and launched **Bizsec.io** corporate secretarial SaaS using **Next.js 16**, **Supabase PostgreSQL**, and **AWS S3**, architecting automated compliance workflows, e-signature integration (**DocuSEAL**), and statutory deadline management to capture **\$250-400/entity/year** at **90%+ gross margins**
- Built AI agent orchestration platform using **AWS Bedrock + Claude 3.5 Sonnet** and **Neo4j graph database** for organizational strategic decision analysis with **7 specialized agent tools** and CRUD operations on knowledge graphs; developed RAG document intelligence system with **pgvector semantic search** and streaming chat interface
- Scaled venture studio to **5-person team** across engineering, product, and operations, launching **2 product lines** serving **15+ users**
- Selected from thousands of applications as one of **Top 150 startups globally** to exhibit and pitch at **Startup Grind Global Conference** in Silicon Valley (April 2026), securing guaranteed stage pitch slot and access to **1,000+ VCs** for investor meetings

CognixAI

Dec 2024 - May 2025

Artificial Intelligence Engineer Intern

Sydney, NSW

- Developed AI content creation platform integrating **Hugging Face models** and third-party APIs (text, video, audio generation) that streamlined social media posting workflows, reducing time from 4 hours to 30 minutes
- Integrated **LinkedIn, X, and Bing News APIs** to provide automated, real-time trending topic recommendations
- Optimized AI model performance by refining data processing workflows in Python, reducing processing time

Projects

Seizure Type Classifier (Research) | *Source Code*

Tensorflow | Keras | Jupyter Notebook

- Achieved a **96%** weighted F1-score in seizure classification by developing a **WaveNet-BiLSTM deep learning model** in **TensorFlow** with **Keras**, accurately classifying **seven** types of seizures from **raw Electroencephalogram (EEG)** data processed with **Pandas** in **Jupyter Notebook**
- Implemented a **custom WaveNet model** of stacked 1D convolutions with increasing dilation rates and a **channel-wise attention layer**, achieving an **8.9%** performance boost by refining focus on critical EEG channels; dataset processed with **Pandas** and results visualized with **Matplotlib**

ProblemHub | *Source Code*

Next.js | React | Django REST API

- Built centralized repository for competitive programming problems with **Next.js** frontend and **Django REST API** backend, reducing contest committee's problem creation workflow from 5 hours to under 1 hour through automated problem-tools format downloads and organization

Technical Skills

Languages: TypeScript, Python, JavaScript, SQL (PostgreSQL), HTML5, CSS, Java, C

Frameworks/Libraries: Next.js, React, Tailwind CSS, shadcn/ui, Supabase, Django, FastAPI, Streamlit, TensorFlow, Keras, Pandas, Scikit-learn

Cloud & Databases: AWS (Bedrock, Lambda, S3, SNS/SQS), PostgreSQL, Neo4j, Supabase, pgvector

AI/ML Tools: AWS Bedrock, Claude API (Anthropic), OpenAI API, Hugging Face, LangChain, RAG, Vector Embeddings

Developer Tools: Git/GitHub, Docker, GitHub Actions, pytest, Vitest, Jupyter Notebook, VS Code/Cursor