

# 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 Modelling, Computer Vision, Algorithms in Agents and AI, Agile Web Development

## Professional Experience

### CognixAI

Dec 2024

*Artificial Intelligence Engineer Intern*

Sydney, NSW

- Developed an **AI-driven** content creation app that streamlined the process of generating and posting personalized content across social media platforms, improving user efficiency by **40%**, by integrating Hugging Face models, third-party AI APIs (text, video, and audio generation), and external data sources
- Enhanced content personalization by researching and prototyping AI models capable of **learning client-specific writing styles**, enabling more accurate content generation through fine-tuning and adaptive training techniques
- Integrated **multiple external APIs** (LinkedIn, X, Bing News, and etc) to provide users with real-time access to trending news, headlines, and topics, allowing for **automated content recommendations** that improved engagement rates by **30%**
- Optimized AI model performance by refining data processing workflows in Python, ensuring seamless interaction between AI-generated content and social media automation tools like LinkedIn API, reducing processing time by **25%**

### Bayswater Mazda

Nov 2020 – Feb 2021

*Software Accounting Intern*

Bayswater, WA

- Accomplished the organization of over **15,000** tax invoice files, improving file retrieval efficiency by **40%** by digitizing and appending them to the company's computer system
- Assisted in developing a **custom software solution** that streamlined the transfer of **5,000+** documents, reducing processing time by **60%** and cutting down **10 workdays** of manual effort each month
- Built automated **Excel** models with advanced functions (e.g., VLOOKUP, PivotTables, VBA) to improve data accuracy by **25%** and support finance team reporting
- Collaborated with a cross-functional team of **6 employees** to implement a **document management solution**, using **Excel Macros** and **VBA** to reduce file processing time by **40%** while staying within budget

## 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*

ReactJS | Django | API

- Accomplished a **10-hour** daily reduction in problem creation time by developing **ProblemHub**, a centralized repository for competitive programming problems that can be readily downloaded in problem-tools format, streamlining access and organization for the contest committee
- Built with a robust tech stack using **Next.js** and **React** for a dynamic frontend, **TailwindCSS** for streamlined styling, and **Axios** for efficient HTTP requests; implemented a **Django** backend with **SQLite** for data management, authentication, and **RESTful API** endpoints to support seamless frontend-backend integration

## Technical Skills

**Languages:** Python, Java, SQL, HTML5, CSS, JavaScript, C, LaTeX, Markdown, Typescript

**Developer Tools:** Jupyter Notebook, Overleaf, TensorBoard, Git (and GitHub)

**Libraries/Frameworks:** ReactJS, SQLite, NextJS, TensorFlow, Keras, Scikit-learn, Docker, Django REST Framework, Pandas, Matplotlib