JAMES LA

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SOFTWARE ENGINEER

A Computer Science Graduate from Victoria University of Wellington, with a passion for learning new technologies and grow and learn from experienced team members while drawing on project experience I have already successfully completed.

SKILLS

Backend
Python | Java | C++ | Node.js | Express.js | OpenCV | Next.js | Vite

Front-end
React js | Javascript | TypeScript | HTML/CSS | Bootstrap | Tailwind CSS

AI/ML
Pytorch | Sci-kit Learn | Tensor Flow

Other
AWS | Google Cloud Platform | Vercel | Bash | Unreal Engine 5 | Godot 4 | Blender | Git | MVC

Soft Skills
Willingness to Learn | Decision-making | Teamwork | Problem Solving | Communication | Attention to Detail

EDUCATION

BSc in Computer Science | Victoria University of Wellington 2021 - 2024

- **Notable Courses:** Introduction to Artificial Neural Networks, Machine Learning Tools/Techniques, Advanced Network Applications, Image-based Graphics

NextWork - AWS

- Online course to learn AWS through practical projects
- **Notable projects:** Host a Website on Amazon S3, Chatbot with Amazon Lex, Build a VPC
- Progress on Github - link

FreeCodeCamp.org - Certifications

- Certifications: Responsive Web Design, JavaScript Algorithms and Data Structures
- Online course where I learnt HTML/CSS and JavaScript through guided projects

WORK EXPERIENCE

Lunch Order "Summariser" - link | O'Sushi

- This application was developed for O'Sushi, a local sushi restaurant in Wellington, New Zealand, that produces and delivers sushi to primary schools across the city.
- O'Sushi received orders in a format that was challenging to read and time-consuming to process. I created this web application to **summarise and reformat the orders**, making them more readable and **eliminating the need for manual order calculations**.
- Through developing this web application, I gained experience with languages and frameworks like JavaScript, React, and Vite. More importantly, I learned about the **vital role of communication** when **presenting ideas and incorporating feedback** from O'Sushi employees to refine and optimise the application, ultimately enhancing the company's operational efficiency.

Tech: React, JavaScript, Vite, Google Cloud Run (Hosting), TailwindCSS

INFO101 & COMP132 Tutor | Victoria University of Wellington 07/2024 - Present

- **Empowered 50+ students** in INFO101 by delivering comprehensive **tutoring on information systems,** enhancing understanding of **business operations, managerial decision-making, and organisational strategy**.
- Cultivated programming proficiency in **20+ first-time coders** by leading COMP132 sessions, teaching to **process, transform, analyse, and present data** effectively using industry-standard programming techniques.
- Structured lesson plans and incorporated hands-on activities and real-world scenarios.
- **Assessed and provided feedback** on student assignments and projects to improve academic performance and practical skills.

Gym Receptionist | CityFitness 06/2023 - Present

- Process payments and maintain accurate records.
- Handle phone inquiries and provide professional customer service.
- Troubleshoot and resolve customer complaints and issues.

PROJECTS

Spotify Statistics Web Application - link

- Using the Spotify API, this application fetches the signed in users recently listened songs/artists and displays the most common genres seen in the data.
- Gained practical experience with **Web APIs, OAuth Authentication**, and **Virtual DOM Manipulation** with React.

Tech: Spotify Web API, React, JavaScript, Next.js, Vercel (Hosting), TailwindCSS

CNN Image Classification

- Developed a Deep Convolutional Neural Network (CNN) using Python, PyTorch, and Scikit-learn to classify 4,500 images into 3 classes.
- Utilised **data for model training, hyperparameter tuning, and application of pre-trained models** for classification of unseen test data.
- Experimented with various loss functions and optimisation techniques to improve the CNN's performance.
- Gained insights into **deep learning workflows**, including **data preprocessing techniques, model architecture design, and performance optimisation strategies** for image classification tasks.

Tech: Python, Pytorch, Sci-Kit Learn, Tensor Flow

LANGUAGES

English | Korean

REFERENCES

Available upon request