

# David Nguyen

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## EDUCATION

### Victoria University of Wellington

Bachelor of Commerce in Data Science

Wellington, New Zealand

July 2022 - June 2025

- Received Letter of Excellence for outstanding performance in DATA302. [View here](#)

## EXPERIENCE

### Data Science Intern

July 2024 – September 2024

New Zealand Transport Agency - Waka Kotahi

Wellington, New Zealand

- Conducted **analysis of road maintenance data** to identify **correlations** between soil group types and maintenance frequency, which could help **allocate resource more efficiently**
- Developed **predictive linear regression models** to explore counterintuitive trends in road maintenance activities, achieving **83% accuracy** in forecasting maintenance needs.
- Created an **interactive data visualization dashboard** and **heat map** that enabled stakeholders to compare pre and post-COVID freight movement patterns.

## PROJECTS

### Personal Portfolio Website | *Next.js, TypeScript, Tailwind CSS*

May 2025 – Present

GitHub Repository

- Developed a modern, responsive portfolio website using **Next.js** with **TypeScript**
- Live Site: [davidnguyen.codes](https://davidnguyen.codes)

### PBTech RAG System (Not affiliated with PBTech) | *Flask, React, LangGraph*

April 2025 – May 2025

GitHub Repository

- Designed and built a **Retrieval-Augmented Generation system** using **LangGraph** for composable, stateful query workflows and contextual information retrieval.
- Implemented **RESTful APIs** to interface with **vector databases** and **language models**
- Created a responsive **React frontend** to serve the application.
- Live Demo: [pbtechrag.onrender.com](https://pbtechrag.onrender.com)

### Kidney Stone Risk Prediction Research | *Data Analysis, Machine Learning*

July 2024 – November 2024

GitHub Repository

- Conducted **epidemiological research** using NHANES 2017-2020 data to investigate associations between physiological, demographic, and dietary factors in kidney stone formation.
- Designed and implemented **ensemble machine learning methodology** combining multiple classifiers to predict kidney stone risk with **90.4% accuracy**.
- Performed comprehensive **data analysis and feature engineering** across **145 variables**, revealing significant associations between kidney stones and many conditions like hypertension, gallstones, and specific dietary components.

## CERTIFICATIONS

### Deep Learning Specialization

November 2024

*DeepLearning.AI*

*Coursera*

- [View Certificate](#)

### Data Engineering Specialization

March 2025

*AWS & DeepLearning.AI*

*Coursera*

- [View Certificate](#)

## TECHNICAL SKILLS

**Data Reporting & BI:** PowerBI, DAX, PowerQuery

**Languages:** Python, R, Typescript, Golang, SQL

**Tools:** Excel, Jupyter, Git, Docker

**Cloud/APIs:** AWS S3, AWS RDS, AWS EMR

## PART-TIME WORK EXPERIENCE

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### **Bakery Assistant**

*PAK'nSAVE*

April 2023 – Present

*Wellington, New Zealand*

- Assisted in daily bakery operations, ensuring all products were prepared according to quality standards and food safety regulations.
- Managed inventory tracking and stock rotation to minimize waste while maintaining product availability.
- Collaborated with team members during high-volume periods to meet customer demands and maintain efficient workflow.
- Provided customer service by answering product queries and offering recommendations based on customer preferences.