POOJA PATEL

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PERSONAL STATEMENT

As a recent Master of Engineering graduate in Computer Systems, I am enthusiastic about applying software and data analysis to solve real-world problems. I am a naturally inquisitive learner, and my career experience has strengthened my technical expertise while honing my communication skills and adaptability in different work environments. I am motivated to apply my skills to meaningful engineering projects and am currently seeking graduate opportunities where I can contribute and continue to grow.

EDUCATION

Master of Engineering – Computer Systems | University of Auckland **JUL 2023 – JUL 2024**

First Class Honours

Researched using machine learning to predict asthma attacks from smart device data to identify risk factors for attack prevention.

Bachelor of Engineering (Hon) – Computer Systems | University of Auckland **FEB 2019 – NOV 2022**

Second Class Honours (First Division)

Coursework included object-oriented programming, app development, software/hardware design, embedded systems, control systems, and electronics presentations.

DESIGN TECHNICAL SKILLS

- Programming Languages: Python, Java, C++, embedded C, R, MATLAB, and VHDL
- Web Development: HTML, CSS, and JavaScript.
- Frameworks/Libraries: React, SpringBoot, Pandas, and Scikit-learn.
- Tools: Git, GitHub, Docker, REST APIs, and Visual Studio Code
- Operating Systems: Ubuntu and Windows

PROJECTS

Pooja's Perspective – Web Portfolio

Designed a static website deployed on GitHub pages using Jekyll, HTML, and CSS. (Link: ppat965.github.io)

Systems Project 2022 – Systems Week

Led a group of 32 students to deliver a Systems Thinking business report on adapting NZ infrastructure for climate change.

Wireless Tracking System for Seabirds – Part 4 Project

Created a mathematical simulation in Python to accurately locate seabirds using trilateration with the IoT network LoRa.

EXPERIENCE

Graduate Teaching Assistant – UNIVERSITY OF AUCKLAND **JUL 2023 – NOV 2023**

- Supported 1000 First-Year Engineering students with electrical lab work, moderating tests, and marking exams.

Census Collector – Stats NZ **FEB 2023 – MAY 2023**

- Assisted diverse households in completing the 2023 Census, contributing to a 91% response rate in the region.

Digital Solutions Intern – Department of Corrections NZ **NOV 2022 – FEB 2023**

- Evaluated the usability of internal applications and authored user guides adopted across teams.
- Presented recommendations for accessible technology in the department to senior staff.

Teaching Assistant – University of Auckland **JUL 2022 – NOV 2022**

- Supervised over 60 students weekly, assisting with technical challenges in their path-finding robotics project using microcontrollers.

Duty Manager – Foxton Food Market **DEC 2020 – APR 2022**

- Managed a team of five and ensured compliance with off-license premise regulations.

ACHIEVEMENTS

- Best Part 4 Project – Telecommunication and Environmental Systems Category (2022)
- License Controller Qualification (2016)
- Runner-Up Dux of Manawatū College (2014)
- The successful applicant of The Rotary National Science and Technology Forum (2014)

VOLUNTEERING AND INTERESTS

- Volunteer – Pink Ribbon Appeal (2023), University Open Day (2023), Good B****** Baking (2025-)
- Subscriber – Service 95 Book club (2024-)
- Participant – Kiwi Jam (2022, Unity and C# game design)
- Class Representative for Physics 121 in Semester One, 2019

REFERENCES

REFEREES AVAILABLE ON REQUEST