

# MATTHEW RANDLE

SOFTWARE ENGINEER | FULL-STACK DEVELOPER



## CONTACT

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## EDUCATION

### Dev Academy Aotearoa

2023

Certificate in Applied Software Development

### University of Canterbury

2017 - 2022

B.Hons in Chemical & Process Engineering

## SKILLS

- Typescript, React, Redux, node.js, SQL databases, and other web development technologies
- Python, MATLAB, and complex mathematical modelling
- Design and analysis of complex systems, including safety and business analysis
- Experience researching and presenting information on an international stage

## ABOUT ME

Hi! I'm Matthew, and I'm a passionate and insightful individual with experience and knowledge in software development and process design. I am driven by curiosity and innovation, and my background in engineering lends me a keen eye for effective design and collaborating with others. I have experience with a variety of full-stack web development tools, like Typescript, React, Redux, and SQL databases, as well as other programming tools such as Python and VBA. I love learning new things and I strive to grow and hone my skills!

## WORK EXPERIENCE

FISHER & PAYKEL HEALTHCARE

### Intellectual Property Engineer

*October - December 2022*

- Analyze and present critical information in the patent space
- Advise in product development and business decisions
- Provide insight into complex designs and specifications

ASUREQUALITY LTD.

### Data Processing Technician

*January - August 2022*

- Used technical programs to analyse and document chemical composition
- Ensured deadlines were met under high pressure
- Provided extra assistance to a variety of teams when needed

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## PROJECTS

DEV ACADEMY AOTEAROA

### **Magickal Menagerie**

*Utilised node.js, Typescript, React, Redux, Knex, Superagent + more*

- Created web-based pet game with an interactive world and social media functions such as profiles
- Implemented full-stack technologies (SQL database, APIs, Redux, React, TypeScript, CSS)
- Provided initial concept and direction during development with group as a Product Owner

UNIVERSITY OF CANTERBURY

### **Utilising Computer Vision Techniques for Automation of Two-Phase Flow Regime Classification**

*Utilised Python, NumPy, SciPy, TensorFlow, Pandas + more*

- Developed machine learning model to analyze images of water-air flow, which would allow for characterization of the flow structure
- Collected image data and processed it using own methods, and built and trained model with TensorFlow
- Performed intense research and study into machine learning and its practical applications

NATIONAL PUBLIC HEALTH SERVICE - CAPITAL, COAST, HUTT VALLEY AND WAIRARAPA

### **COVID-19 Situation Report - Statistical Processing**

*Utilised Excel, VBA, statistical knowledge*

- Volunteered to assist in the development of an Excel-based tool to take COVID-19 public health data and convert it into a summary for public health use
- Collaborated with medical professionals to provide an effective and timely solution to their specifications

PERTRONIC INDUSTRIES

### **Fault Logging, Reporting, and Summary System Design**

*Utilised Excel, VBA, database design skills, process and statistical knowledge*

- Designed system to report faults present in a manufacturing process, and present that data to allow for process improvements
- Collaborated with client and process experts to ensure design was specific, functional, and adapted to their needs and for effective user experience
- Used process knowledge and design techniques to implement a prototype logging system