

# Newton Yuan

SOFTWARE DEVELOPER

021 055 0649  
newtonkme@gmail.com  
**DOB** - 03 March 2005  
**Nationality** - New Zealand

## EXPERIENCE

### Tella, Auckland NZ

Software Developer

JAN 2023 - PRESENT

Developing front-end websites and web-apps. Focusing on tools for home loan advisers and mortgage applicants. Tasked with issues ranging from minor bugs to new features to framework problems. Worked closely with the back-end and design team to create effective solutions.

Skills: TypeScript, React, Tailwind/MUI

### Mural Health, United States

Software Developer

NOV 2022 - JAN 2023

Building a Web App which is a participant management platform that helps users manage trial experience for patients and caregivers. Mostly worked on front-end, dealing with styling and user interfaces on every aspect of the app including: Analytics, Payments, Messaging, Feedback, Permissions etc.

Skills: TypeScript, React, CSS

### 21e8, Auckland NZ

Software Developer

NOV 2021 - FEB 2022

An Information architecture company pioneering computational data markets by exchanging information and compute power for energy. Created simple hash mining server/client with C++ and HTTP, used CUDA C++ to experiment with GPU-programming to maximise computer efficiency, created basic Python programs to test the Hashlife algorithm.

Skills: C++, Python, CUDA

## WEBSITE

[www.newtonyuan.com](http://www.newtonyuan.com)

For a more in-depth explanation and documentation of personal projects please visit the website.

- Design and development process
- Explanation of how to view and run each project
- Timeframes for each project
- Applications used
- Links to social media
- Source code

## SKILLS

Python | JavaScript | Java | C++ | C | C# | TypeScript | HTML | CSS | ReactJS | GraphQL | Microsoft Azure | MongoDB | Heroku | Unity Game Engine | Flutter

Adobe PhotoShop | Krita x64 | Technical Drawing | Figma

## TRANSFERABLE SKILLS

Teamwork | Leadership | Product Management | Communication | Attitude

## Woork, Auckland NZ

Software Developer

APR 2019 - JUNE 2020

Worked in a 30-strong startup developing a management app for real estate agents. Involved in the development of new features for the web and smartphone app that allow real estate agents to visualise finances, manage databases, organise callbacks, schedule viewings and set reminders.

Skills: JavaScript, React, GraphQL

### PERSONAL PROJECTS

#### Discord Bots

Bot Developer

JUNE 2020 - NOV 2022

Developed several cloud-hosted server bots from scratch using DiscordJS, implementing an online database to store and retrieve user information.

Skills: JavaScript, MongoDB, Heroku Cloud Platform

#### Android Java Mobile Game

Game Developer & UX Designer

FEB 2022 - JUN 2022

Launched a mobile game ("3 Heroes") available on the Google Play Store with 100+ downloads using Android Studio.

Skills: Java, XML, Google Play Services

#### Q-Learning AI

Software Developer

DEC 2021 - FEB 2022

Created a self-driving car that utilises Python's OpenAI Gym and Q-Learning to help itself around any track.

Skills: Python, Q-Learning, OpenAI

#### React Website

Software Developer

SEP 2022 - PRESENT

Built a personal portfolio website using React JS at [www.newtonyuan.com](http://www.newtonyuan.com).

Skills: JavaScript, React, CSS

### EDUCATION

**University of Auckland (Bachelor of Engineering)**  
Auckland, NZ

JAN 2023 - PRESENT

**Westlake Boys High School**  
Auckland, NZ

JAN 2018 - DEC 2023

### LANGUAGES

English - Mother Tongue  
Chinese (Mandarin) - Fluent