

# Jay Parry

## Software Developer

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[jaytpa01@gmail.com](mailto:jaytpa01@gmail.com) | <https://linkedin.com/in/jay-parry42/>  
0455 732 001 | <https://jayparry.dev>

Experienced Full Stack Developer with a strong background in backend technologies, including Node.js and Golang, as well as frontend web app development with React.

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## Relevant Employment History

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### welcome. / Full Stack Developer

JUNE 2023 - PRESENT

- Primarily focused on development for a client running an online auction house, collaborating with their Head of Technology to gather requirements, identify and resolve issues, and implement new features.
- Utilised Node.js and React to design and implement the application.
- Successfully integrated with 3rd-party systems; including Salesforce, Westpac PayWay, and DoxAI.

### Automated Electrical Solutions / Systems Engineer

MARCH 2021 - MAY 2023

- As the sole developer, I managed various responsibilities within the software development lifecycle.
- Designed and maintained RESTful APIs in Golang and Node.js, and a TCP server to control IoT devices.
- Created and maintained a user-friendly React application for interacting with the sports lighting API.
- Developed and configured IoT devices for lighting systems at many sporting facilities.
- Established a robust development environment in Google Kubernetes Engine for efficient project management.

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## Personal Projects and Relevant Experience

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### Discord Bot with OpenAI Text Generation (Golang)

2021

[github.com/Jaytpa01/iGustus](https://github.com/Jaytpa01/iGustus)

- Developed a versatile Discord bot for text extraction and generation using OpenAI GPT-3.
- Trained multiple AI models based off of text data from my friends in our Discord server.
- Implemented intuitive CLI-like commands, such as "/post" followed by optional prompts to interact with the bot.

### Advent of Code (Golang)

DECEMBER 2022

[github.com/Jaytpa01/advent-of-code-2022](https://github.com/Jaytpa01/advent-of-code-2022)

- Participated in Advent of Code, a series of annual programming challenges, to both improve and demonstrate problem-solving skills.

## Encryption CLI (Golang)

2022

- Created a command-line tool in Go for experimenting with encryption algorithms.
- Utilised SHA256 for password hashing and AES256 for file encryption/decryption.

## Autonomous Robot - Obstacle Course Navigation (Arduino)

2020

- Collaborated on a group project to design, prototype, build, and iterate on an autonomous robot using Arduino.
- Navigated a complex obstacle course with a finite state machine, showcasing strong problem-solving abilities.

## Fractal Renderer (C)

2020

[github.com/Jaytpa01/MandelbrotRender](https://github.com/Jaytpa01/MandelbrotRender)

- A crude fractal generator / renderer written in C that outputs a ppm image file of the generated fractal. Sample image output is included in the repo.

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## Skills

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**Languages:** Golang, Node.js, JavaScript, TypeScript

**Frontend Technologies:** React, Astro

**Databases:** PostgreSQL

**Containerization / Infrastructure:** Docker, Kubernetes, GCP

**Version Control:** Git

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## Education

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**University of Newcastle / Bachelor of Computer Science**

AUGUST 2020 - JUNE 2021

- High Distinction Average with a GPA of 6.8/7.
- Left prior to graduation in order to pursue my career.

**University of Newcastle / Bachelor of Mechatronics Engineering/Electrical and Electronic Engineering (Combined)**

JANUARY 2020 - JULY 2020

- Accepted with Vice-Chancellor's Scholarship for Academic Excellence and maintained a high distinction average.