

# Matthew Neil

matthew.x.neil@gmail.com | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

## Experience

### **Raytheon Technologies: Full-stack software engineer**

(October 2022 - Current)

- Developed several key features that enabled users to view and utilise their desirable information more effectively using GraphQL queries and mutations, React, Typescript and SCSS.
- Assisted in the delivery of substantial updates to the application's navigation system as a consequence of user research which improved the accessibility and usability.
- Designed and built scalable GraphQL APIs with Apollo Client allowing for caching strategies to be implemented - consequently improving application performance.
- Enforced a healthy and maintainable codebase through frequent peer code reviews ensuring the creation of readable and consistent code along with test-driven development using Jest.

### **MervArt: Full-stack software engineer (Contract)**

(September 2020 - March 2021)

- Created an e-commerce application with a separate dashboard for handling products and customer service to ensure the product can be managed and scaled by the client in the future.
- Designed the user interface using Figma with an emphasis on creating a seamless user experience from browsing to checkout.
- Implemented SEO effectively to establish a strong presence in search engines
- Leveraged knowledge using Next, React, MongoDB along with Redux to manage the shopping cart information.

## Projects

### **Image Classification Platform**

(November 2021 - May 2022)

- Designed and created a web-based platform for the modelling and training of 2D convolutional neural network pipelines for image classification from a set of labelled images provided by the user.
- Built a REST API using Node, Express, Node and Mongoose to interact with the MongoDB database through Axios queries; the Express server utilised controllers coupled with JSON Web Tokens and cookies to manage user authentication.
- Engineered a micro web application using Flask and Python that handled translating high-level definitions of the model into the corresponding TensorFlow pipeline along with subsequently training and predicting the translated pipelines.

### **Online Help Forum**

(March 2021 - June 2021)

- Led the development of the application with a personal focus on user interface design and implementation of the frontend application using Blade templates.
- Aided with the design of the MySQL database schema and establishing the API routes, controllers and user authentication within Laravel using PHP.
- Responsible for hosting the frontend application on Google Cloud Platform's compute engine service.

## Skills

### **Programming languages**

JavaScript (ES6), TypeScript, HTML5, CSS, SQL, NoSQL, Python

### **Libraries & frameworks**

ReactJS, ExpressJS, NodeJS, SCSS, Jest, AWS, Mongoose, NextJS, GraphQL, Axios, Apollo Client, TensorFlow, NumPy

### **Tools & platforms**

Git, AWS, PostgreSQL, MongoDB, Firebase, Jira, Postman, VS code, Figma, Affinity Designer, Photoshop

## Education

### **Computer Science BSc (Hons): First Class Honours**

(October 2019 - July 2022)

Loughborough University

## Certifications

AWS Certified Cloud Practitioner

(Valid February 2023 - February 2026)