

JOSHUA THALAPPILLIL

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WORK EXPERIENCE

Datacom

Software Engineer

2022 - Present

- Developed and Maintained Government Portals: Enhanced customer portal functionalities for government entities across AU & NZ using Angular and TypeScript for front-end and Django and Python for back-end development.
- Zeus Application Upgrade Automation: Created a comprehensive Python-based automation suite for pre-and-post upgrade testing of the Zeus application. Utilised Playwright to automate complex workflows, including user authentication, in-app navigation, and data validation. Integrated Zeus's API to automate the creation and deletion of test sites and hosts, and containerised the suite using Docker for consistent execution across various environments.
- API Interaction and Error Handling: Utilised Angular's HttpClient for RESTful API interactions, performing operations like GET, POST, and PATCH requests. Implemented robust error handling with a centralised service and RxJS's catchError operator.
- Reactive Programming: Leveraged advanced RxJS features, such as Observables and BehaviourSubjects, for handling asynchronous data flows and state management in a reactive programming paradigm. Demonstrated expertise in creating, transforming, and subscribing to data streams.
- Technologies and Tools: Applied WSL2, Docker, SMTP4dev, PostgreSQL, DBeaver, Kibana (Elasticsearch), RabbitMQ, and Celery in various projects. Utilised TypeScript (Angular) for front-end development and Python (Django) for back-end development. Ensured high reliability and quality through independent code testing in the UAT environment using CI/CD tools and Python.
- Network Device Management Portal: Improved the network device management portal by implementing new features and resolving bugs, following agile sprint methodologies in a collaborative team environment.

Royal Melbourne Hospital

Health Information Manager

2021 - 2022

- Conducted comprehensive analysis to identify and rectify data quality deficiencies.
- Designed and executed system training programs for clinicians to elevate data quality standards.
- Provided support to staff members for IT-related inquiries, enhancing operational efficiency.

PROJECTS

Website Portfolio *JavaScripts, React, tsParticles, HTML & CSS* <https://portfolio-resume-three.vercel.app/>
Developed a frontend React web application using react-router-dom, incorporating JavaScript, React, tsParticles, HTML, and CSS.

Pokédex *JavaScripts, HTML, CSS and PokeAPI* <https://pokedex-one-kappa-18.vercel.app/>
Developed a dynamic Pokemon web application using JavaScript, HTML, CSS, and the PokeAPI. Implemented features such as Pokemon data fetching, animations, and a user-friendly Pokedex interface. Managed a large collection of Pokemon assets and maintained a clean, well-documented codebase.

EDUCATION

Skillsoft Percipio

Completed Credentials: Agile Foundations, JavaScript: Fundamentals, Programming Fundamentals: Object-oriented Programming, Getting Started with Java: The fundamentals of Java Programming, Programming in C#: Fundamentals

- 2023

The Odin Project

Coding Bootcamp: Foundations of Full-Stack Development

- 2022

La Trobe University

Double Bachelor's of Information Management & Health Sciences

Jan 2018 - Dec 2021

TECHNICAL SKILLS

Programming Languages:	Python, TypeScript, JavaScript, HTML, CSS, Java, SQL, Bash
Frameworks:	Angular, Django, React, Node.js
Developer Tools:	Git, VS Code, Visual Studio, IntelliJ IDEA, PyCharm
Libraries:	PrimeNG, react-router, Bootstrap