

JOSE GUERRERO

MPhil Candidate - Computing and Mathematics

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Portfolio: <https://portfolio-pink-seven-87.vercel.app/>

SUMMARY

Software developer with 5+ years of experience building React.js applications, with backend experience in FastAPI and Node.js. Currently pursuing a Master of Philosophy focused on machine learning and explainable AI for biomedical data analysis and clinical applications.

PROFESSIONAL EXPERIENCE

Master of Philosophy Candidate

Apr 2025 - Present

Western Sydney University

- Exploring ML techniques in PyTorch for biomedical data, focusing on interpretability and clinical relevance
- Evaluating supervised and unsupervised models (e.g. Random Forest, UMAP) for feature extraction and dimensionality reduction
- Reviewing explainable AI (XAI) methods to support transparent, trustworthy ML models in clinical settings
- Designing a VR/AR analytics platform using React.js, Three.js, and WebXR to visualize ML-driven insights
- Preparing for dataset acquisition and model development with the Children's Hospital at Westmead

Front-End Developer

Sep 2021 - Apr 2024

Ansarada

- Support in maintaining Monorepo infrastructure and micro frontends using Next.js and TypeScript
- Built responsive UIs from Figma designs and reusable React.js components in Storybook
- Integrated .NET backend endpoints with GraphQL APIs powering the Virtual Rooms platform
- Automated dynamic quote generation and PDF export using Node.js for client-facing tools
- Wrote unit tests with Jest and integration tests with React Testing Library to ensure UI reliability and maintainability



EDUCATION

Master of Electrical Engineering

University of New South Wales

Mar 2015 - Dec 2016

Distinction Average

SKILLS

Front-End:

- TypeScript • React.js • Next.js
- Redux • Zustand • Material UI
- Tailwind CSS • Three.js • Storybook

Back-End:

- Node.js • FastAPI • Golang

Machine Learning:

- PyTorch • scikit-learn • Pandas
- XAI

APIs & Infrastructure:

- GraphQL • REST • AWS • Docker
- Vercel

Testing & Tools:

- Jest • React Testing Library
- Cypress • Unity

Front-End Developer

Feb 2021 – Sep 2021

Medius Health

- Collaborate with designers to translate Figma designs into functional web applications using React.js/Redux, TypeScript, and GraphQL
- Enhance our mobile app by integrating new features with React Native, improving user experience and expanding functionality
- Partner with backend and machine learning engineers to prototype innovative solutions tailored to client needs, fostering cross-functional teamwork
- Develop robust end-to-end and unit tests using Cypress and React Testing Library / Jest
- Provide backend support with Django, handling essential tasks such as creating endpoints

Front-End Developer

Jan 2020 – Jan 2021

HiveXchange

- Maintain and enhance our main platform functionalities using React.js/Redux, TypeScript and GraphQL to ensure optimal performance and elevate user engagement
- Migrate legacy AngularJS code to React.js to modernize outdated pages and improve maintainability
- Design and implement an internal web application using React.js, Typescript and Material UI to streamline sales operations and boost productivity
- Develop basic API endpoints with Node.js for data integration

Front-End Developer

Mar 2019 – Oct 2019

Macrovue

- Contribute to the upgrade of the main platform using cutting-edge technologies including React.js/Redux and Django
- Implement Figma designs to develop new features to enhance overall user experience and functionality
- Develop end-to-end and unit tests with Cypress and Jest to ensure robust application and performance
- Integrate GraphQL mutations and queries across both back-end and front-end sides

Junior .Net Developer

Jun 2018 – Mar 2019

Adslot

- Engage in numerous web apps projects using Asp.Net MVC, WebAPI, and React.js/ Redux for rich user experiences
- Develop unit tests using MSTest and Jest for full-stack projects
- Active participation in Agile sprints, embracing all phases of the software development lifecycle for iterative improvement