

BERNARD HARYANTO

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[Personal Website](#)

INTRODUCTION

Software Engineer with experience building responsive web and mobile applications in startup environments. Skilled in React, Next.js, Django, and Node.js, with additional knowledge of React Native. Comfortable working in agile teams, mentoring interns, and contributing to accessible, maintainable software that supports team workflows.

SKILLS

Frontend: React, Next.js, React Native, HTML5, CSS3, Tailwind

Backend: Django, RESTful APIs, Express.js, Node.js

Databases: PostgreSQL, MongoDB, MySQL

DevOps & Tools: Git, Vercel, Heroku, Docker, Vite, ESLint, Cursor

Project Management: Jira, Confluence, Trello

Languages: Python, JavaScript, TypeScript, C, Rust

WORK EXPERIENCE

CitiXP

Software Developer (Part Time)

Feb 2025 – Present | Sydney

- Led the redevelopment of the [CitiXP](#) web platform, moving to a serverless architecture with Next.js, Neon, and Vercel to improve scalability and developer experience.
- Designed and developed a React Native mobile app for [iOS](#) and [Android](#).
- Mentored and supported 6 software development interns through task allocation, code reviews, and pair programming.
- Collaborated directly with the Founder to align technical decisions with long-term product and business goals.
- Tech Stack: Next.js, React Native, Node.js, Neon, Vercel

PROJECTS

[macOS web Desktop Clone – Multi-App Frontend Environment](#)

Nov 2025 – Present | Sydney

A personal frontend project that recreates a macOS-style desktop experience in the browser, built with Next.js and Typescript, and deployed on Vercel. The interface supports multiple “apps” running inside draggable/resizable windows, demonstrating desktop-like UI patterns on the web.

- Built core apps including a Spotify-style music player UI, PDF viewer with custom rendering (pdfjs-dist), and image viewer inside a unified desktop shell with window management.
- Architected the frontend with Next.js App Router structure, using React Context for state management and conditional rendering to handle multiple app windows within a single-page application.
- Implemented window management (open/close, focus, positioning, z-index stacking) to mimic desktop behavior and maintain shared state across apps using custom hooks and refs.
- Tech Stack: Next.js, TypeScript, Tailwind CSS, Vercel, pdfjs-dist

TeamCheckr – University Group Collaboration Platform

April 2025 – May 2025 | Sydney

A personal project building on ideas explored during UniHack 2024, aimed at helping university students form project groups and leave anonymous peer feedback. The platform simulates a real-world academic environment with features like user profiles, group matching, and structured reviews.

- Built core features such as authentication, profile management, and peer reviews using modular React components.
- Architected the frontend with Next.js App Router, using file-based routing and shared layout components.
- Developed secure REST APIs for user, course, and review management with route-level protection.
- Integrated Prisma ORM with a PostgreSQL database to handle structured data and relationships.
- Designed responsive UI with Tailwind CSS to ensure accessibility across devices.
- Tech Stack: Next.js, TypeScript, Tailwind CSS, Prisma, PostgreSQL

Eventhubb – COMP3900 Capstone Project

Sept 2024 – Dec 2024 | Sydney

AI-Powered platform designed to help users discover a wide range of events and explore sessions hosted by their peers or organizations. The system enables personalized event recommendations and supports features like real-time updates and user reviews to enhance engagement and discovery.

- Led a team of 6 as Scrum Master, managing sprints with Jira and maintaining documentation in Confluence.
- Developed core frontend features using React (Vite), including event detail views, search, and event editing.
- Integrated APIs using Axios to enable real-time updates for events and user reviews.
- Achieved a final grade of 84/100.
- Tech Stack: React (Vite), MUI, Axios

GroupedIn – UniHack 2024

March 2024 | Sydney

A university group matching platform created as part of UniHack 2024, aimed at helping students find project teammates and share anonymous peer feedback. The project serves as the foundation for TeamCheckr, a more advanced personal project that expanded on its core concepts.

- In a group of 6, paired with one teammate to develop RESTful API endpoints using Express.js to support user auth, group management, and peer reviews.
- Designed and implemented a MySQL schema to store users, courses, and feedback data efficiently.
- Integrated secure authentication and role-based access control for protected routes.
- Collaborated with frontend developers to ensure seamless API consumption and data handling.
- Tech Stack: Express.js, MySQL, RESTful APIs

AirBrB – COMP6080 Web Front End Programming

Oct 2023 – Nov 2023 | Sydney

A frontend clone of Airbnb developed as part of a university web development course, focused on building a full-featured, production-ready UI using modern React practices. The project emphasized real-world application architecture, strong typing with TypeScript, and robust testing workflows.

- Collaborated with a teammate to develop a fully functional frontend for an existing RESTful backend API.
- Implemented major features including authentication, listing management, availability filtering, and booking flow.
- Ensured modular, type-safe component structure using custom hooks and strongly typed props.
- Achieved a final project grade of 97.5/100.
- Tech Stack: React (TypeScript), React Router, MUI, Cypress, Jest, ESLint.

EDUCATION

Bachelor of Science (Computer Science)

Sept 2022 – Aug 2025 | Sydney

University of New South Wales

- WAM: Distinction