

# BERNARD HARYANTO

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## INTRODUCTION

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Software Engineer with hands-on experience building responsive, user-centric web applications in academic, startup, and hackathon environments. Experienced in modern frontend frameworks like React and Next.js, with backend experience in Django and Express, and a strong understanding of RESTful API integration and database systems like PostgreSQL and MongoDB. Adept at Agile methodologies, including leading sprints as a Scrum Master. Committed to crafting accessible, maintainable software and continuously improving both code quality and team workflows.

## SKILLS

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

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

**Databases:** PostgreSQL, MongoDB, MySQL, Neon

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

**Project Management:** Jira, Confluence, Trello

**Languages:** Python, JavaScript, TypeScript, C, Rust

## WORK EXPERIENCE

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### CitiTrails

CitiTrails is an online platform that helps users discover unique walking trails and hidden gems in Sydney, curated by local experts. It offers personalized itineraries and fosters a community where explorers can connect and share their experiences.

#### Software Developer (Part Time)

June 2025 – Aug 2025 | Sydney

- Led a complete rebuild of the platform, transitioning to a modern, serverless architecture using Next.js, Neon, and Vercel to enhance performance, scalability, and developer experience.
- Manage and mentor a team of 2 software development interns, overseeing task allocation, code reviews, and technical direction.
- Work directly with the Founder to align the product rebuild with long-term business goals and user needs.
- Designed and developed iOS application using React Native (currently under review by Apple for App Store release).
- Tech Stack: Next.js, React Native, Node.js, Neon, Vercel

#### Software Development Intern

Feb 2025 – June 2025 | Sydney

- Developed key frontend features including the Favourite Trails page, Profile page, and Gallery of Locals.
- Enhanced the trail editing experience by implementing POI reordering and refining the UI for better usability and user experience (UX).
- Integrated Mapbox for interactive trail mapping and Dicebear API for avatar generation.
- Collaborated with the Founder and CTO, aligning development with user needs and product vision.
- Practiced Agile development using Git, Jira, Confluence, documenting feedback and iterating quickly.
- Tech Stack: Heroku, Django, JavaScript, Tailwind CSS, Python, HTML, CSS, Mapbox, Dicebear API

## PROJECTS

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### TeamCheckr – University Group Collaboration Platform

April 2025 – Present | 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**

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### **Bachelor of Science (Computer Science)**

**Sept 2022 – Present | Sydney**

University of New South Wales

- WAM of 79.84 - Distinction