**BERNARD HARYANTO**

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**INTRODUCTION**

Software Engineer with hands-on experience building responsive, user-centric web applications in academic, startup, and hackathon environments. Proficient 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**

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

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

**Databases:** PostgreSQL, MongoDB, MySQL

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

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

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

**WORK EXPERIENCE**

**Software Development Intern –** [**CitiTrails**](https://www.cititrails.com/) **Feb 2025 – Present | Sydney**

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.

* 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: Next.js, Heroku, Django, JavaScript, Tailwind CSS, Python, Mapbox, Dicebear API

**PROJECTS**

**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 1`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 – Present | Sydney**

University of New South Wales

* WAM of 79.84 - Distinction