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. 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

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

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 – Present | 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

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 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 79.64 - Distinction