Irel Kian C. Bacolod

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Summary

Software Developer with 2 years of experience in frontend development and 1 year of experience in backend development using Node.js and Express.js. Skilled in developing responsive, high-performance web applications using React.js, JavaScript (ES6+), HTML5, and CSS3. Experienced in building and integrating RESTful APIs, handling server-side logic, and working with Express.js and Node.js for scalable backend systems. Strong understanding of cross-browser compatibility, version control using Git, and agile development practices.

Professional Work Experience

Front-end & API Integration Developer   September 2023 – Present
8box Solutions Inc.   *Remote*

- Developed responsive and high-performance web applications using React.js, TypeScript, Tailwind CSS, and modern JavaScript (ES6+).
- Integrated RESTful APIs and Google Maps API to enhance user interactivity and enable real-time data visualization.
- Collaborated with cross-functional teams, including clients and stakeholders, to gather technical requirements and deliver tailored frontend solutions.
- Contributed to backend development by building and maintaining APIs using Node.js and Express.js to support frontend integration.

Backend Developer Intern   July 2023 – September 2023
8box Solutions Inc.   *Remote*

- Developed and maintained backend routes in a web application using Node.js and Express.js following the MVC architecture.
- Assisted in migrating a session-based backend to a RESTful API for Buildhub.ph, improving scalability and frontend integration.
- Utilized tools such as WAMPServer, Postman, and MySQL for backend development, API testing, and database operations.

Education

Polytechnic University of the Philippines Manila   September 2025
Bachelor of Science in Computer Engineering   *Santa Mesa Manila, Philippines*

Skills

Languages: HTML, CSS, JavaScript, TypeScript, PHP, Python, JAVA
Frameworks and Libraries: React.js, Next.js, Tailwind CSS, ShadCN UI, Material UI, React Native, Expo
Backend & Databases: Spring Boot, Nodejs, Express.js, MYSQL, PostgreSQL, MongoDB, REST API, MVC Architecture
Tools & Platforms: Git, Github, Trello, Figma, Postman, Visual Studio Code, SwaggerUI/OpenAPI

Projects

Enhancing Garbage Collection: A Mobile Integration Solar-Powered System | June 2025

- Developed a React Native mobile application using Expo to enable real-time monitoring of trash bins via sensor data.
- Integrated a Backend-as-a-Service (BaaS) using Supabase for real-time database operations and API communication.

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- Designed and implemented a secure database schema for user data and application functionality.
- Integrated Supabase APIs for authentication, data management, and real-time functionality in the frontend.