# Otniel Rahadiyan Sumantri

**Junior Full-stack Developer**

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## SUMMARY

Full-Stack Developer with hands-on experience building web and mobile applications using JavaScript, TypeScript, React, Next.js, and Node.js. Developed APIs, authentication workflows, and AI-generated game narratives. Previously supported 400+ seller accounts at Shopee, bringing experience in troubleshooting and operational analysis.

## SKILLS

**Programming Languages & Runtime:** JavaScript, TypeScript, Node.js, HTML, CSS

**Backend & API Development:** Express.js, RESTful APIs, Socket.io, Apollo Client (GraphQL), JWT Authentication, Password Hashing (bcrypt), Middleware Development, Schema Validation (Zod)

**Databases & Data Modeling:** PostgreSQL, MongoDB, Supabase, Sequelize ORM, Entity Relationship Diagrams (ERD), Query Optimization

**Frontend & Mobile Development:** React.js, Next.js, Redux, React Context, Tailwind CSS, Responsive Web Design, React Native, Expo

**Testing & Quality Assurance:** Jest, Supertest, Unit Testing, API Integration Testing, Test-Driven Development (TDD)

**AI Integration:** Google Gemini API, AI-Generated Content, Structured Output Validation, Fallback Handling

**Development Tools & Deployment:** Git, GitHub, Postman, Vite, Vercel

**Collaboration & Development Practices:** Agile/Scrum, Pair Programming, Code Review, Cross-Functional Collaboration

**Languages:** Indonesian (Native), English (TOEFL ITP: 540)

## PROJECTS

**Bastionfall - Fantasy City Defense Game | Backend Developer** **November 2026**

Engineered a single-player fantasy city-defense web game in a team of three, where players manage resources, respond to AI-generated events, and defend their city through a 100-day campaign with 10 monster waves.

**Tech Stack:** TypeScript, Next.js, Google Gemini API, Zod, Vite, Vitest

- Developed the game engine in TypeScript, covering resource management, building upgrades, enemy waves, and difficulty settings.
- Integrated AI-generated narration and choices into the backend using the Google Gemini API, with events based on city conditions.
- Implemented event validation and fallback handling with Zod so gameplay could continue when AI generation failed.
- Developed delayed event consequences that connect player choices to resource changes and future city events.
- Tested and balanced game difficulty through strategy-based simulations on Normal and Hard, comparing win rates and adjusting costs, rewards, and progression.

**Demo:** bastionfall.alicemorgan.my.id

**Alice Store - E-Commerce Web Application | Fullstack Developer** **November 2026**

Built a laptop catalog web application where users can browse products by category and view specifications and prices.

**Tech Stack:** Next.js, React, MongoDB, Mongoloquent, JWT (jsonwebtoken), bcryptjs, Zod, React Infinite Scroll Component, Toastify.js.

- Developed the product catalog using Next.js and React, displaying promotional listings, laptop categories, and product detail pages.
- Implemented product data storage and retrieval using MongoDB and Mongoloquent, supporting catalog listings and product information.
- Built user authentication using JWT and bcryptjs, with Zod for input validation.

**Demo:** alice-store.alicemorgan.my.id/

**Tempat Gosip - Social Media Mobile App | Fullstack Developer** **October 2026**

Developed a full-stack social media mobile application using React Native, Expo, Node.js, GraphQL, and MongoDB.

**Tech Stack:** React Native, Expo, GraphQL, Apollo Client, Node.js, Apollo Server, MongoDB, Redis, JWT, Expo Router, SecureStore

- Built post creation, likes, comments, and user following using React Native and Expo, with Expo Router for screen navigation.
- Developed and integrated a GraphQL API using Node.js, Apollo Server, and Apollo Client, with MongoDB to store posts, interactions, and follow relationships.
- Implemented user authentication and session management using JWT and stored access tokens on the device with Expo SecureStore.

**Preview App:** https://shorturl.at/CjctA

**Hacktiv Chess Ultimate - Classic Chess Game | Backend Developer** **October 2026**

Engineered a multiplayer chess web app with a team of three in one week, featuring matchmaking, real-time gameplay, and session recovery.

**Tech stack:** JavaScript, Node.js, Vite, React Context, Tailwind CSS, Socket.io, Stockfish, JWT (jsonwebtoken), bcrypt, Supabase, PostgreSQL.

- Built the real-time backend with Node.js and Socket.io to synchronize moves, turns, and timers across active games.
- Implemented server-side move validation and win/draw detection to enforce chess rules and reject invalid client actions.
- Developed matchmaking and lobby management with Socket.io, including room creation and automated opponent pairing.
- Implemented authentication and persistent data storage with JWT, bcrypt, Supabase, and PostgreSQL for player profiles, game histories, and leaderboard data.
- Handled player reconnections and game resumption by restoring session access and synchronizing the current game state.

**Demo:** hacktive-chess.vercel.app/

## EXPERIENCE

**Panca Nekasa** **Setu, Bekasi Regency**

*Procurement Staff* *April 2024 - August 2024*

- Planned weekly material requirements using Microsoft Excel for inventory simulations and procurement tracking.
- Analyzed supplier pricing and historical purchasing data to support price comparisons and procurement negotiations.
- Standardized procurement records and transaction logs to maintain consistent documentation and support tracking and reporting.

**Shopee Indonesia** **Jakarta, DKI Jakarta**

*Business Development, Long Tail Analyst* *May 2022 - August 2022*

- Served as the main contact for 400+ seller accounts, handling escalated technical and operational issues.
- Helped sellers resolve operational problems, use platform tools, and run campaigns more effectively.
- Analyzed seller performance using platform analytics to identify areas for improvement and recommend practical next steps.

## EDUCATION

**Hacktiv8 Indonesia** **Jakarta**

*Software Developer (Fullstack Javascript Developer)* *July 2026 - November 2026*

Completed a 16-week full-stack JavaScript program covering React, Next.js, Node.js, Express, PostgreSQL, and MongoDB. Built RESTful APIs with JWT authentication and applied automated testing, Git workflows, and Agile collaboration.

**University of Pembangunan Nasional Veteran Jakarta** **Jakarta, DKI Jakarta**

*Social Science (Bachelor of International Relation) — 3.79 GPA* *August 2017 - July 2021*

Concentrating in International Economics and World Politics.