Ajitesh Mishra

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Summary

Backend-focused Software Engineer skilled in Node.js, Express.js, Docker, PostgreSQL, and AWS. Built 3 end-to-end projects including an NPM-published open-source library and an AI-powered document analysis tool. Comfortable with full deployment pipelines, containerization, and REST API design. Looking for a backend or full-stack SDE role to build and ship real products.

Education

Dr. A.P.J. Abdul Kalam Technical University (AKTU) — Uttar Pradesh, India
B.Tech – Information Technology — *Graduated: June 2025*

Experience

Backend Intern — Jul 2024 – Aug 2024
Techitude Tribe Pvt. Ltd. — *Remote*

- Built and maintained RESTful backend APIs using Node.js and Express.js to power the Android mobile application.
- Integrated Firebase Realtime Database to support live data sync features; handled user authentication using Firebase Auth.
- Collaborated with the Android team to define API contracts and debug client-server integration issues during development sprints.

Projects

Gold Investment AI Workflow | *Node.js, Express.js, PostgreSQL, Prisma, Gemini API* | GitHub | Live — 2025

- Built and deployed a production backend integrating Google Gemini AI to serve a context-aware gold investment advisor API that responds to any user query with financial nudges.
- Implemented a Digital Gold Purchase API that fetches live gold prices via GoldAPI.io, calculates gold quantity in grams/milligrams per INR investment, and persists transactions in PostgreSQL using Prisma ORM.
- Deployed on Render with live endpoints; modeled relational database schema with users and gold_purchases tables including foreign key relationships.

Online Code Compiler & Browser IDE | *React, Node.js, Express.js, Docker, AWS EC2/S3* | GitHub — 2024

- Built a browser-based VS Code-style IDE supporting multi-language code writing and real-time execution.
- Used Docker to spin up isolated per-request execution containers, preventing cross-user interference and enabling safe untrusted code runs.
- Deployed on AWS EC2 with static assets served via S3 and CloudFront CDN; handled concurrent user sessions without performance degradation.

Legal Document Analysis System | *Node.js, Express.js, MongoDB, Multer, TogetherAI* | GitHub — 2024

- Built an AI-powered tool that accepts PDF, DOCX, and TXT uploads and uses TogetherAI to extract key clauses, detect risk areas, and generate plain-language summaries.
- Implemented secure multi-format file ingestion with Multer; persisted document metadata and analysis results in MongoDB.
- Architected a modular Express.js backend separating upload, parsing, AI inference, and response layers for maintainability.

ValidateX – Open Source NPM Library | *JavaScript, TypeScript, Node.js* | npm — 2024

- Designed and published a zero-dependency validation library to NPM supporting ES Modules and CommonJS, covering email, password, phone, credit card, and custom rule validations.
- Implemented the Luhn algorithm for credit card validation and a domain typo-suggestion engine for email inputs (e.g. gmal.com → gmail.com).
- Structured for extensibility via a plugin-style API allowing developers to register custom validation rules; published with TypeScript type definitions.

Technical Skills

Languages: JavaScript, TypeScript, Python, C++
Backend: Node.js, Express.js, REST APIs, WebSockets, JWT Auth, Firebase, Prisma ORM
Frontend: React.js, HTML, CSS
Databases: PostgreSQL, MongoDB, MySQL
Cloud & DevOps: Docker, Docker Compose, AWS (EC2, S3, CloudFront), GitHub Actions, Linux
CS Fundamentals: DSA, Object-Oriented Programming, Operating Systems, Basic System Design
AI & APIs: Google Gemini API, TogetherAI, Live third-party API integration
Tools: Git, GitHub, Postman, VS Code

Certifications

AWS Cloud Essentials – Coursera (2024)