Deepansh Gupta

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Education

Ajay Kumar Garg Engineering College | July 2024
Bachelor of Technology in Computer Science (GPA: 8.30 / 10.00) | *Ghaziabad, Uttar Pradesh*

Experience

Techolution | February 2024 – Present
Full Stack Developer

- Launched 22+ features across 4 products, independently delivering 9 mission-critical implementations and collaborating in agile, cross-functional teams.
- Refactored and migrated a latency-sensitive backend service from **Node.js** to **Python**, reducing response time by 45% and improving code maintainability.
- Built language parsers for 10+ programming languages and integrated with in-house AI systems, boosting code vulnerability detection accuracy by 30%.
- Provisioned **GCP VM instances** and designed production-grade **CI/CD pipelines**, decreasing deployment cycle time by 60%.
- Revamped UI components with **React**, **React-Flow**, and **TanStack Query**, optimizing rendering speed by 35% and reducing bundle size using regex-based code splitting.
- Implemented low-latency streaming APIs and real-time WebSocket communication via **Socket.IO**, improving live collaboration features with sub-second responsiveness.
- Built 8 robust **REST APIs**—6 with **Python FastAPI**, 2 with **Node.js Express**—powering backend logic for over 5 client-facing modules.
- Architected the **Managed Service Provider (MSP)** module, unlocking enterprise capabilities and increasing B2B client onboarding efficiency by 40%.
- Led the security layer implementation with Next.js, integrating authentication and **RBAC** with custom IDP support and permission-scoped routing, enhancing platform access control.
- Built and productionized an internal code editor on top of **Theia**, enabling 30+ engineers to debug and deploy code directly in-browser with persistent state support.
- Pioneered AI-powered **VS Code extensions** similar to GitHub Copilot, accelerating developer productivity for 50+ users and cutting feature delivery time by 2x.

Projects

Paytm Clone | *React.js, Node.js, Express.js, MongoDB, Tailwind CSS* | GitHub|Deploy

- Architected a scalable, end-to-end fintech application replicating core Paytm functionalities, featuring user authentication, balance management, and payment history.
- Implemented secure session handling and middleware validation, reducing unauthorized API access by 40%.
- Refined transactional workflows with a service-oriented backend, boosting real-time payment throughput by 60%.
- Achieved a 25% reduction in API latency and 30% lower server load by applying async operations and optimized MongoDB indexing.

Blockchain-Based Voting System | *Blockchain, Solidity, Ethereum, Smart Contracts, React, Web3.js* | GitHub

- Developed a decentralized voting platform ensuring transparency, immutability, and auditability by leveraging Ethereum smart contracts.
- Wrote gas-optimized smart contracts using **Solidity**, ensuring a fully tamper-proof voting mechanism and 100% verifiable results.
- Orchestrated React + Web3.js frontend to facilitate seamless blockchain interactions for both voters and election authorities.
- Reduced gas consumption by 20% through Solidity optimizations and minimized on-chain storage.
- Published a **research paper** detailing the system's cryptographic architecture, consensus reliability, and potential for national election adoption.

Diabetes Prediction Model | *Python, pandas, numpy, Streamlit, scikit-learn* | GitHub|Deploy

- Engineered a supervised ML pipeline for predicting diabetes likelihood using logistic regression and decision tree classifiers, achieving 77% accuracy.
- Preprocessed datasets using NumPy and pandas to extract medical features such as glucose levels, BMI, and insulin sensitivity.
- Deployed a real-time diagnostic interface with **Streamlit**, enabling healthcare practitioners to interactively analyze patient data.

Sub-Projects

Taskify | Full-stack task management app with dynamic drag-and-drop board using React, Zustand, and Node.js.
AI Chat Bot | Context-aware assistant trained on OpenAI API for multi-turn conversations and semantic intent detection.
Next.js Weather App | Geolocation-based weather forecast dashboard integrating OpenWeatherMap API with responsive UI.
Portfolio Website | Animated personal portfolio built with Next.js, Framer Motion, and Tailwind CSS, showcasing projects and blogs.

Technical Skills

Languages: Rust, JavaScript, Python, C++, Typescript
Technologies: React.js, Express.js, TensorFlow, PyTorch, jQuery, Node.js, Next.js, Tailwind, Tanstack Query, React Query, React-flow, CSS, PostgreSQL, Docker,AngularJS, Jest,Vitest,FastAPI,VSCODE, GenAI Webpack, Babel
Concepts: Database Management, Middleware, Authentication, Backend Development, Artificial Intelligence, API, Database Normalization,Responsive Web Design,Test Code generation,VSCODE Extension Development, Chrome Extension Development, RBAC Implementation, NextAuth, Test Code Handling,Prompting, Fine-tuning , RAG Implementation,Agent Deployment
DSA and Competitive Programming

- Codechef July Lunchtime - Global rank 124
- Codeforces Round 863 - Global rank 726
- Solved over 1200 problems across multiple platforms.