VARUN PRAJAPATI

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Vijay Nagar (452010), Indore, India

FULL STACK DEVELOPER

Experienced Full Stack Developer with expertise in building **production-grade, scalable** web applications using **modern technologies**. Experienced in cloud solutions, secure payment systems, backends and architecting microservices. Good foundation in system design, cloud infrastructure, and DevOps practices. Solved **500+ DSA problems** across platforms, demonstrating strong problem-solving abilities and algorithmic thinking.

SKILLS

- **Programming Languages:** JavaScript, TypeScript, HTML5, CSS3, C++
- **Frontend Technologies:** React, Next.js, Express, Redux Toolkit, Tailwind CSS, Responsive Design
- **Backend Technologies:** Node.js, Express.js, Hono, RESTful APIs, WebSocket, Microservices Architecture
- **Databases:** PostgreSQL, MongoDB, Redis, Prisma ORM, Mongoose
- **Cloud/DevOps:** Docker, Github, AWS (S3, EC2, Clourfront, Parameter Store, Secrets Manager) CI/CD, GitHub Actions, PM2
- **Development Tools:** Git, Turborepo, Monorepo, VSCode, Postman, DBeaver, EditorJS, Ubuntu
- **Security & Authentication:** JWT, NextAuth, Input Validation, Encryption, Session Management

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FEATURED PROJECTS

Digital Payment App (proPAYn) | **Live Demo** | **Github**

- **Tech Stack:** Next.js, TypeScript, Express.js, PostgreSQL, Prisma, Docker, Turborepo, Jotai, NextAuth, AWS EC2
- A **scalable**, full-stack digital wallet, inspired by Paytm. It supports user onboarding, wallet top-up via bank on-ramp, P2P transfers, and **secure** balance management.
- **Architecture:** Designed industry-standard **microservices architecture** with dedicated **payment gateway** and bank backend to simulator bank APIs, implementing payment flow proPAYn → Gateway → Bank → Webhook callbacks with end-to-end encryption. It features **industry-grade** security payment processing with session management, merchant validation, instant P2P transfers without **parallel conflicts** using custom SQL queries, comprehensive **security** through HMAC **signature** headers, timed session tokens, idempotency keys, JWT authentication, **SQL injection** prevention, database transactions and zod input **validation**.
- **DevOps :** Its a monorepo codebase deployed on VM with SSL certificates and domain configuration for all services. Configured automated CD pipeline combining self-written bash scripts and GitHub Actions.

Blogging Platform (PenCraft) | **Live Demo** | **Github**

- **Tech Stack:** TypeScript, React.js, Hono, PostgreSQL, Prisma, AWS (S3, Cloudfront), Tailwind CSS, EditorJS, NPM registry
- **Advanced Features:** Integrated EditorJS with **custom plugins** for headers, code blocks, images, and inline formatting, coupled with AWS-S3 integration with **presigned URLs** for **secure** image uploads. Built comprehensive **username-based** authentication system with unique constraints and validation rules, featuring **social** functionalities including **follower/following** system, blog claps, **draft** functionality, and detailed user profiles with **edit capabilities**.
- **Performance Optimizations:** Reduced server costs by **70%** using **Cloudflare Workers** instead of AWS EC2 while implementing **infinite scrolling** for seamless user experience. Enhanced **security** and performance through session storage with JWT tokens, implemented fully **responsive** design supporting all device sizes, and built comprehensive user profile system with media upload capabilities and real-time social interactions.

AI-Enhanced Movie Discovery | **Github**   JavaScript, React, Firebase, Tailwind CSS, TMDB's API, OpenAI's API
FoodVilla Web-App | **Github**   JavaScript, React, Tailwind CSS, Swiggy's API

WORK EXPERIENCE

Full Stack Web Development Intern, Shiavnski Technologies LLC, Indore   May 2024 - December 2024

- Contributed to a UK-based sustainability platform, by successful database **migration**. Managed the secure transfer of environment variables to AWS Parameter Store and Secret Manager, and fixing **critical bugs** to improve system stability.
- Developed a Figma-like tool enabling users to **create** and share **flow diagrams**, enhancing **clients collaboration** and design capabilities increasing the client retention.

Frontend Developer Intern, IW Technocrats LLP   Dec 2021 - Apr 2022

EDUCATIONAL BACKGROUND

BTech in **Computer Science and Engineering** | MITS College, Gwalior | Aug 2018-Sept 2022   **CGPA: 7.5/10**

Relevant Coursework: Data Structures & Algorithms, System Design, Computer Networks, Database Management, Operating Systems, Software Engineering, Computer Organization & Architecture

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ACHIEVEMENTS

- **GATE 2022, 2023 Qualified**
- **500+ DSA Problems Solved** - LeetCode, GeeksforGeeks, and other competitive programming platforms.
- System Design: Experience in designing scalable architectures for high-traffic applications.
- Leadership: Mentored junior developers and led technical discussions in team environments.
- Continuous Learning: Actively staying updated with latest web technologies and industry best practices.