

Karan Parwani

Senior Software Engineer, Senior Backend Engineer, Junior Blockchain Engineer, FinTech Developer, Full Stack Engineer

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Portfolio: <https://karanparwani.github.io/Portfolio>

Github: <https://github.com/KaranParwani>



PROFESSIONAL SUMMARY

Senior Software Engineer with 4+ years of proven impact in building scalable and secure backend systems across FinTech, Digital Banking, and HR Tech startups. Specialized in Python and Node.js with a strong focus on system performance, data security, and delivering business-driven results. Experienced in architecting high-availability microservices, integrating compliance-driven financial APIs (KYC, AML, in-banking), and enabling Ethereum-based blockchain features like wallet interactions and dynamic gas pricing. Proficient in cloud infrastructure and DevOps tools including AWS, Docker, and Redis, with a solid track record of reducing latency, boosting performance, and accelerating product delivery. Skilled in owning end-to-end engineering efforts—from initial architecture to production deployment—while mentoring team members and contributing to agile, fast-paced development cycles. Known for delivering solutions that align tightly with business goals and directly contribute to product growth.

SKILLS

Programming Expertise: Python, JavaScript, Node.js, Solidity, Web3.

Technical Skills: API Development, Database Management & Programming, Blockchain Integration, Cloud Deployment, Smart Contract Testing, RESTful Services, Performance Optimization, Version Control (Git, GitLab), Software Development Life Cycle (SDLC), Continuous Integration (CI), Web Applications, RDBMS.

Technological Expertise: Docker, Docker Compose, AWS Services, MongoDB, PostgreSQL, MySQL, NoSQL, Webhooks, RabbitMQ, Redis.

Tools & Web Frameworks: AWS (EC2, S3), Fastapi, Flask, Express.js, React.js, Django, Flyway Migrations, Nginx, PM2, Git (Version Control), Auth0 by Okta, Sumsb Integration, Safe Global.

Operational: Team Leadership, Technical Documentation, Agile Methodologies, API Security, Solution Architecture, Entry-Level DevOps Engineer.

CORE SKILLS

API Development: Experienced in designing, developing, and optimizing RESTful APIs, GraphQL APIs, and microservices for seamless integration and scalability.

Microservices Architecture: Skilled in designing, implementing, and maintaining microservices-based systems with a focus on scalability, resilience, and real-time communication.

Blockchain Development: Gaining hands-on experience in smart contract development, exploring decentralized applications (DApps), and familiarizing with blockchain infrastructure concepts.

Team management: Mentoring and overseeing a team of two backend engineers, focusing on code reviews and continuous integration.

Database Management: Skilled in designing and managing relational (PostgreSQL, SQLite, MySQL) and NoSQL (MongoDB) databases with a focus on performance and scalability.

Cloud and DevOps: Proficient in cloud deployment (AWS, EC2), containerization (Docker).

FinTech Solutions: Expertise integrating banking APIs, KYC/AML integrations, payment platforms integration, and identity and access management (IAM).

Problem-Solving: Strong analytical skills with a focus on resolving complex technical issues and optimizing system performance.

EXPERIENCE

Universal Assets Bank

Dubai, United Arab Emirates

Software Engineer

Apr '23 – Present

Website - universalassets.com

- Built a scalable digital banking backend using Python and Node.js from scratch, covering 7 functional modules; supported 400+ concurrent users and handled in small transactional volume within the first 6 months.
- Deployed 8 microservices with a unified API endpoint through AWS API Gateway, ensuring secure and seamless communication added caching mechanism through redis for frequently accessed data that resulted in 60% increase in system performance.
- Developed secure APIs with JWT authentication and a rules-based encryption engine for encrypted payload processing, ensuring efficient and secure frontend/backend communication using cryptographic methods.
- Implemented event-driven architecture with RabbitMQ and webhooks, enabling real-time updates and reducing API polling overhead by 80%.
- Integrated Ethereum smart contracts via Python Web3, enabling blockchain functionalities such as cryptocurrency transactions and dynamic gas price calculations using CoinGecko APIs; added a failover mechanism to maintain service continuity during third-party API downtime.
- Led backend delivery of V1 product launch, enabling onboarding of 400+ B2B/B2C users in the first quarter and directly contributing to successful investor demo and seed funding.
- Enhanced monitoring and diagnostics by integrating Grafana and Loguru—reduced incident response time by 70%.
- Mentored and managed 2 junior engineers, conducted code reviews, aligned backlog with business KPIs, and drove continuous delivery in an agile setup.
- Owned DevOps responsibilities as a Junior DevOps Engineer—Dockerized services, deployed them on AWS EC2 instances, managed CI/CD pipelines, handled secrets, and optimized deployment workflows for production readiness.

Intellica LLP

Ahmedabad, India

Associate Software Engineer

Aug '21 – Feb'23

Website - rootle.ai

- Rootle is an AI-powered application designed to help businesses automate candidate calls using Twilio based on their CV and ATS data.
- Migrated backend from Flask to FastAPI, resolving limitations around DTO validation and ORM integration—improved development speed and maintainability across modules.
- Developed secure and scalable APIs with JWT authentication and background task processing, enabling efficient asynchronous workflows for CV parsing and candidate matching.
- Boosted database performance by 50% through optimized RAW SQL and PL/SQL queries—reduced query response time on ATS data processing pipelines.
- Integrated AWS services and Twilio, enabling automated emails (SES), fast CV access (S3), and AI-driven voice calls (Twilio)—automated 1,000+ candidate interactions monthly.
- Collaborated in a 9-person cross-functional team, helping shorten sprint cycles and speed up MVP delivery by 20%.
- Actively contributed to code reviews and system design, enhancing long-term codebase quality, scalability, and onboarding ease for new developers.

Software Engineer Trainee

Nov '20 – Mar'21

- Actively learning programming languages like Python, JavaScript, Web Scraping, and actively learning HubSpot CMS to enhance coding abilities and adapt to new tools and technologies.
- Skilled in teamwork and participating in code reviews to maintain high code quality, identify areas for improvement, and stay updated with emerging technologies.

EDUCATION

Gujarat Technological University

Ahmedabad, India

Master's in Computer Application

2018 – 2020

- Focused on advanced software development, database management, and system design principles. Completed multiple projects, including a capstone project on Django E-commerce.

Gujarat University

Ahmedabad, India

Bachelor's in Computer Application

2015 – 2018

- Gained foundational knowledge in programming, data structures, and web development. Actively participated in tech workshops and coding challenges.

PROJECTS

Generate Wallet Address – [GitHub](#)

- Developed and deployed a smart contract on the Ethereum Sepolia testnet to dynamically generate wallet addresses, leveraging tools like Infura, Web3.py, and Hardhat.
- Integrated Web3.py for seamless blockchain interaction, utilizing event logs for data extraction while addressing challenges such as HexBytes slicing, checksum validation, and gas estimation.
- Gained hands-on experience with Ganache, ensuring reliable smart contract functionality through debugging and compliance with Ethereum standards

Monitor Blockchain Transactions – [GitHub](#)

- Utilized Web3 technology to scan the Sepolia Testnet for incoming and outgoing transactions associated with a specified wallet address, saving detected transactions into a database.
- Efficiently recorded and managed transaction data for seamless storage and retrieval.
- Developed an API to enable dynamic control and management of the transaction indexer.

Blockchain-Based Voting System – [GitHub](#)

- Developing a decentralized voting application leveraging blockchain technology to ensure transparency, security, and immutability in the voting process.
- Utilizing **React.js** for a dynamic user interface, **Node.js** for the backend, and **Solidity** for writing smart contracts deployed on the **Sepolia testnet** or **Hardhat**.
- Incorporating Web3.js for seamless interaction between the frontend and the blockchain, enabling real-time updates and user authentication through wallets like MetaMask.

CERTIFICATIONS

- Meta Backend Developer Professional Certificate ([link](#))
- Achievements in HackerRank ([link](#))