

Karan Parwani

Dubai, United Arab Emirates | +971-556517579 | [EMAIL](#) | [Portfolio](#) | [Github](#) | [LinkedIn](#)

PROFILE SUMMARY

Experienced Software Engineer with 4+ years of expertise in building scalable backend systems, microservices, and API-driven architectures, specializing in Digital Banking Solutions, Blockchain Technologies, FinTech innovation and HR Tech. Proficient in Object-Oriented Programming (OOP), designing complex rule engines, and optimizing performance for high availability and reliability. Skilled in team management with 1 year of experience leading a team of two backend developers to deliver impactful solutions. Adept at integrating advanced technologies, driving operational efficiency, and crafting scalable, high-performance systems in dynamic, fast-paced environments.

EDUCATION

Gujarat Technological University

Ahmedabad, India

Master's in Computer Application

2018 – 2020

- Graduated with a 7.2 CGPA.
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Gujarat University

Ahmedabad, India

Bachelor's in Computer Application

2015 – 2018

- Graduated with a 6.7 CGPA.

SKILLS

Technical: API Development, Database Management, Blockchain Integration, Cloud Deployment, Smart Contract Testing, RESTful Services, Performance Optimization, Version Control (e.g., Git, Gitlab), Software Development Life Cycle, Continuous Integration, Web Applications, Database Programming, Database Design, Blockchain Enthusiast, RDBMS.

Technological: JavaScript, Python, Node.js, Docker, Solidity, Web3, AWS Services, MongoDB, PostgreSQL, MySQL, NoSQL, RabbitMQ, Redis.

Tools & Web Frameworks: AWS (EC2, S3), FASTAPI, Flask, Express, Django, PostgreSQL, MongoDB, Flyway Migrations, Nginx, PM2, Web3, Git, Auth0 by Okta, Sumsb Integration, Safe Global.

Operational: Team Leadership, Technical Documentation, Agile Methodologies, API Security, Solution Architecture, DevOps (Junior).

EXPERIENCE

Universal Assets Bank

Dubai, United Aab Emirates

Software Engineer

Apr '23 – Present

Website - universalassets.com

- Spearheaded the design and development of a scalable digital banking backend system in Python and NodeJS, encompassing 7 modules with PostgreSQL for transactional data and MongoDB for unstructured data.
- Deployed 8 microservices with a unified API endpoint through AWS API Gateway, ensuring secure and seamless communication, while leveraging RabbitMQ and webhooks for inter-service interactions and Grafana for monitoring.
- Implemented secure APIs with JWT authentication and a rules-based engine for encrypted payload processing, enabling efficient and secure frontend-backend communication.
- Integrated Ethereum smart contracts via Python Web3, enabling blockchain functionalities such as cryptocurrency transactions and dynamic gas price calculations.
- Led a team of two developers, mentoring them and conducting code reviews, while aligning technical solutions with strategic goals and expanding expertise in blockchain through hands-on Solidity development.
- Optimized application performance by implementing caching mechanisms and fine-tuning database queries, reducing latency and enhancing user experience.

Intellica LLP

Ahmedabad, India

Associate Software Engineer

Aug '21 – Feb'23

Website - rootle.ai

- Built secure, throttled CRUD APIs using FastAPI and Flask with JWT authentication and background task processing. Optimized database performance by developing and testing RAW SQL and PL/SQL queries, improving efficiency by 50%.
- Designed and implemented scalable email and SMS services using AWS SES and Twilio, ensuring real-time performance and timely delivery for 10,000+ daily active users and campaign alerts.
- Enhanced 200+ API responses with permission-based views, applying DRY principles and design patterns. Created unit test cases with Pytest to ensure reliable functionality.
- Worked in a team of 6 developers, utilizing tools like Jira and Postman to streamline development processes and enhance productivity.

Vovancev PVT LMT

Ahmedabad, India

Software Engineer Trainee

Nov '20 – Mar'21

- Actively learning programming languages like Python and JavaScript, and training in 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.

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**.
- 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](#))