

Zenish Borad

Backend Software Engineer | Fintech

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Summary

Backend engineer focused on reliable, auditable financial software and applied AI. Builds trading systems, data pipelines and LLM-powered tools in Python, SQL and AWS, backed by automated testing and CI.

Education

Northeastern University

Master of Science in Information Systems, GPA 3.7 / 4.0

• **Coursework:** Trading Systems, Database Design, Algorithms, Data Science, Big Data (Scala), Smart Contracts

Sep 2025 – May 2027

Boston, MA

Parul University

Bachelor of Technology in Computer Science and Engineering

2020 – 2024

Vadodara, India

Technical Skills

Languages: Python, Java, SQL, JavaScript, Scala, R, Solidity

Fintech: Backtesting, Technical Indicators, Risk Metrics, Audit Trails, ECDSA Signatures

Backend: REST APIs, Flask, JSON-RPC, ETL Pipelines, OOP, Data Structures & Algorithms

Testing & DevOps: pytest, Fuzz Testing, GitHub Actions, Docker, Git, Linux

Databases & Cloud: PostgreSQL, SQLite, Schema Design & Indexing, AWS EC2, Vercel

Data & AI: pandas, NumPy, scikit-learn, LLM APIs

Frontend & Blockchain: React, Ethers.js, Ethereum, Foundry, Hardhat, Web3.py

Work Experience

Sigzen Technologies Pvt. Ltd.

Backend Engineer Intern

Jan 2024 – Aug 2024

Ahmedabad, India

- Built a **Python (pandas) ETL pipeline** merging ERP data from **3 business systems** into **1 unified dataset**
- Containerized the pipeline with **Docker** so scheduled runs behaved identically in development and production
- Built **SQL dashboards** turning sales data into self-serve trend analysis for **2 teams**, product and finance
- Replaced manual spreadsheets with one consistent source, improving reporting accuracy and turnaround for both teams

Projects

ChainProof: Verifiable Trading Agent

Python, Docker, AWS EC2, GitHub Actions, Solidity, Web3.py, Foundry

Jan 2026 – Sep 2026

- Built a tamper-evident audit trail: **30 trading decisions** hashed, signed (ECDSA) and recorded on a public ledger
- Wrote a verifier that checks every hash and signature from a fresh clone (**30/30**), plus a client-side dashboard
- Runs a **live BTC/ETH/SOL paper-trading bot** on **AWS EC2** with a 4-indicator strategy, risk rules and fees
- **33 automated tests in CI** (GitHub Actions): unit, fuzz and integration tests with pytest and Foundry
- Traced and fixed a bug in third-party reference code (ERC-8004) that called a function missing from the live registry
- **Links:** [Dashboard](#) | [Code](#)

Bitcoin Data Pipeline & Text-to-SQL

Python, Flask, SQLite, Bitcoin Core RPC, Gemini API, Docker

May 2026

- Built a resumable pipeline from my Bitcoin full node (JSON-RPC) into an indexed SQL schema of **48,000+ transactions**
- Added LLM natural-language querying (Gemini API) with schema-grounded prompts; **75% (9/12)** benchmark accuracy
- Secured the public Flask app with read-only SELECT queries, a 15 s timeout, a 500-row cap and rate limiting
- **Links:** [Live App](#) | [Code](#)

SimpleAMM: Automated Market Maker

Solidity, JavaScript, React, Hardhat, Ethers.js, Vercel

Jun 2026

- Uniswap v2-style AMM (0.30% fee, slippage protection, LP tokens, pool factory) with **100% test coverage**
- Built a React front end that previews each trade and rebuilds price history from event logs with chunked, retrying queries
- **Links:** [Live App](#) | [Code](#)