

# ASHWIN SUDHAKAR

## Software Developer Engineer

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### PROFESSIONAL SUMMARY

Software Developer Engineer with 7+ months of production experience building scalable web applications and DeFi protocol integrations. Proven expertise in developing RESTful APIs, implementing smart contract security best practices, and deploying containerized microservices. Skilled in architecting production-grade Angular PWAs with optimized frontend performance and Node.js backends with PostgreSQL. Strong foundation in Ethereum ecosystem development including ERC20 tokens, Uniswap liquidity protocols, and gasless transaction patterns.

### TECHNICAL SKILLS

**Languages:** JavaScript, TypeScript, Solidity, Python, Java, SQL, Rust **Frontend:** Angular, React, Next.js, PWA, HTML5, CSS3

**Backend:** Node.js, Express.js, RESTful APIs, PostgreSQL, MongoDB **Blockchain:** Ethereum, Solidity, Foundry, Hardhat, ERC20, Uniswap, IPFS, MetaMask

**DevOps:** Docker, Podman, Linux, Git, SSH, CI/CD, GitHub Actions

### PROFESSIONAL EXPERIENCE

**Software Developer Intern – FriggHome (Quantacore Labs India Pvt Ltd)** Jun 2024 – Present · 7 months  
Bangalore, India · Full-time

- Built production-ready Angular PWA features and integrated them with RESTful APIs.
- Designed and implemented scalable Node.js microservices serving API requests.
- Implement and test on-chain Uniswap v3/v4 flows: token deployment, pool creation, add liquidity, swap.
- Harden and review Angular PWA and backend services; find and fix UI/UX bugs.
- Build monitoring for nodes/services (Zabbix) and mempool monitoring scripts.
- Research and prototype MEV components (builder/relay/searcher) and connect consensus/execution clients.
- Implement system-level tooling: software TPM on Debian VM, FriggBox remote admin services (QR API, reverse proxy), OTA server & client, Nostr and DappNode server setups.
- Document deployments, repos, and automated scripts for team handover.

### TECHNICAL PROJECTS

**UrbanDAO** · Angular, Solidity, Foundry, TypeScript, IPFS

Built decentralized governance platform with gasless meta-transactions, role-based smart contract access control, and on-chain voting. Implemented EIP-2612 permit signatures reducing user transaction costs by 100%. [github.com/ashwinsdk/UrbanDAO](https://github.com/ashwinsdk/UrbanDAO)

**RigLedge** · Flutter, Dart, SQLite, RESTful APIs

A fast, lightweight, production-ready native Android Flutter application for borewell drilling entries, income & expenses, and agent management. [github.com/ashwinsdk/BillMint](https://github.com/ashwinsdk/BillMint)

**Project-Xylen** · Python, Node.js, PostgreSQL, RESTful APIs

Developed automated crypto trading system with ensemble ML models, distributed controller architecture, and real-time WebSocket market data integration. Achieved 15ms average response latency. [github.com/ashwinsdk/project-xylen](https://github.com/ashwinsdk/project-xylen)

**BillMint** · Flutter, Dart, SQLite, RESTful APIs

Developed cross-platform invoice generation app for small businesses with offline-first architecture and cloud sync capabilities. [github.com/ashwinsdk/BillMint](https://github.com/ashwinsdk/BillMint)

### EDUCATION

**Bachelor of Technology, Computer Science – Reva University, Bangalore**

Aug 2022 – May 2026 · CGPA: 8.70/10

### CERTIFICATIONS & ACTIVITIES

- IEEE Computer Society Blockchain Development Program – 6-month intensive training in DeFi protocols and smart contract security