Amit Gupta

3 yrs as Full Stack Blockchain Developer – Solidity and ReactJS.
16 yrs Software Development experience

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Skills

Solidity Development	- Hands on **Solidity** coding with **NodeJS**, **Web3JS**, **Truffle, OpenZeppelin, VSCode, Remix** - Deep understanding of **ERC20**, **ERC721** and **ERC1155** - Experience with **Geth**, **Moralis**, **Infura** for interacting with Ethereum chain - Test Driven development using **Mocha** and **Chai** - Aware about Solidity best practices and proven design patterns - Basic experience of Smart Contract Security audit using Solidity inspector tools like Consensys' **Surya** and generating **call graphs**, **call traces**, **inheritance trees** - **Hyperledger Fabric** chain code development
Blockchain Fundamental Concepts	- Good understanding of **Bitcoin** and **Ethereum concepts** like UTXO and Account based models, Bitcoin scripting, Digital signatures, HD Wallets, Multisig, Hash Time Lock contracts (HTLC) - Knowledge of consensus protocols for public chains (**PoW, PoS, PoET, PoB**), permissioned chains (**Paxos**, **PBFT**) and **CoSi** (Collective signing) - Scalable chains like **Bitcoin NG** (microblock concept) and **Byzcoin** (uses Collective Signing (CoSi) implemented using Schnorr multisignature), **Algorand** (uses Sortition and Verifiable Random functions(VRF), Bitcoin like scalability and BFT like throughput). - **Blockchain interoperability** in permissionless blockchains (asset transfers, crypto transfers) and permissioned blockchains (data transfer) by achieving atomic swaps using Hashed Timelock Contract (HTLC) - **Distributed Identity** (DID) and Verifiable Credentials (VC) using Hyperledger Indy - Understanding of **Blockchain for financial services** including Project UBIN – Monetary Authority of Singapore project for Clearing and settlement of payments and securities - Understanding of **Blockchain Security** including Eclipse attack, front running attacks (displacement, insertion, suppression), Selfish Mining attack
Frontend	- ReactJS (Certified), Babel
Languages	JavaScript, Java (Certified), SQL (Certified)

Other	SAFe Agilist (Certified) - Scaled Agile development
	Oracle SOA 12c, Mulesoft
	Cryptography and Network Security (taught it to Post Graduate students at BITS Pilani)

Experience

2019-PRESENT

Solidity Engineer / Confidential

Developed blockchain-based employee recognition app. Manager, customers and each employee get 'stars' to distribute each quarter, that they can choose to award team members.

In this way, over the course of their work, employees can collect stars from others for their efforts, dedication, maybe they helped somebody, maybe they put extra effort in a project, maybe they found a critical bug etc. This allows managers, internal customers to acknowledge and award efforts and excellence of deserving team members.

So what happens after that? These 'stars' are valuable...they can be redeemed at end of the year for crypto, gifts, trophies presented by management etc.

2008-2018

Integration Architect / Confidential

Architected and developed file transfer systems for integrating over 500 source destinations pairs.
Led team of 3-7 people at different times with technology stack spanning Java, Javascript, SQL, Oracle SOA, GoAnywhere MFT and Mulesoft

2005-2008

Senior Applications Engineer in Oracle R12 Development Team/ Oracle India

Integration Architect - designed and developed multiple integration solutions for Fortune 500 customers.

Education

2022

IIT Kharagpur/Blockchain and its Applications

2005

BITS Pilani/ ME Software Systems, Class Topper CGPA 10/10

2002

Delhi College of Engineering, Delhi/Bachelor of Engg, Class Topper

Licenses and Certifications

2022
SAFe Agilist / Scaled Agile Corporation

2005
BITS Pilani/ ME Software Systems, Class Topper CGPA 10/10

2002
Delhi College of Engineering, Delhi/Bachelor of Engg, Class Topper