Dev Rathod

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EDUCATION

- **Saskatchewan Polytechnic College** — Saskatoon, SK
  Cloud Computing and Blockchain Development; GPA: 3.4 (8.30/10.0 - First in class of 60) — *Jan 2024 - Dec 2024*
- **Conestoga College** — Waterloo, ON
  Computer Application Development; GPA: 3.4 (8.6/10.0 - First in class of 60) — *Jan 2023 - Aug 2023*
- **KADI University** — Gandhinagar, IND
  Bachelors in Computer Applications; GPA: 3.54 — *April 2018 - Sept 2021*

SKILLS SUMMARY

- **Languages**: Solidity, Javascript, Typescript, Python, ReactJS, NextJS
- **Technologies and Tools**: Kubernetes, Docker, Python, Go, REST APIs, GraphQL, Microservices Architecture, Cloud Platforms (AWS/Azure), Git, CI/CD pipelines, Prometheus)
- **Database**: MongoDB, MySql, PostgreSql

WORK EXPERIENCE

- **Chaintech Networks** — Remote, India
  Backend Engineer — *Aug 2019 - April 2022*
  - **Blockchain Network Fabric Controller (BNFC)**: Developed and maintained server-side applications using Golang, TypeScript/Node.js, and Java, demonstrating proficiency in multiple programming languages.
  - **Event and Alert System**: Built with Node.js and WebSockets to provide real-time monitoring of network health, improving the detection and handling of anomalies.
  - **Node Upgrade Mechanism**: Implemented performance optimization strategies for Node.js applications, reducing server response times and enhancing overall system efficiency.
  - **Consensus Health Monitoring**: Created CLI tools in Golang for streamlined node management, health checks, and resource monitoring of distributed systems.
  - **CLI Framework**: Integrated automated testing and continuous integration/continuous deployment (CI/CD) pipelines to ensure code quality and streamline the development process.
  - **Kubernetes Deployment**: Collaborated with cross-functional teams to integrate backend services with frontend applications and third-party APIs.
  - **Cross-Chain Interoperability**: Devised protocols with Solidity and Hyperledger for asset transfers, improving interoperability between different blockchain networks.
  - **Smart Contract Profiling**: Built a profiling tool using Typescript and web3.js to optimize smart contract execution and gas consumption, enhancing DApp efficiency.

CONTRIBUTIONS

- **Plug board Proxy (Networking)**: Constructed a plug board proxy that adds an extra layer of encryption to connections towards TCP services.(Mar '16)
- **Asynchronous Work Queue Manager (Kernel Programming)**: Executed a kernel module to serve as an asynchronous work queue manager with configurable worker threads. Rolled out netlink sockets to propagate callbacks from kernel to user land and throttling to improve job extraction latency. (Nov '15)
- **The Agariyas - (P2P) blockchain based charity.**: Launched a anti-malware Linux file system that prevents the existing file system from being corrupted by malware by detecting virus pattern while attempting to open, read and write a file. (Oct '15)
- **Automated file backup System (AWS Services)**: Launched a system call in AWS Services, which supports multiple ciphers to encrypt or decrypt an input file.(Sep '15)
- **Peg- Solitaire, Connect Four, Sudoku (Game Development)**: Designed a Peg Solitaire, Connect Four and Sudoku using Iterative Deepening Search, Alpha-beta pruning and Backtracking, MRV and Forward Chaining Artificial Intelligence Algorithms, respectively, in Python. (Aug '15)

CERTIFICATES

- Active Member of the Association for Blockchain Integration (ABI), contributing to blockchain technology research and development initiatives since 2024.

- Associate certification validates expertise in developing, deploying, and debugging cloud-based applications using Amazon Web Services (AWS) technologies.

- Achieved certification in Java through HackerRank by solving 50 algorithm-based challenges, demonstrating proficiency in programming and the ability to develop efficient solutions for complex coding problems.