

Abhijeet Bhowmik

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EXPERIENCE

Cambium Networks, Bangalore India — Sr. Software Engineer

Nov 2021 - PRESENT

- Engineering Network Management System for Fixed Wireless and Broadband products.
- Expertise in Microservices development using efficient tech stack like Golang, gRPC, NodeJS, pSQL, RabbitMQ, Redis.
- Skilled in designing and developing microservices-based architecture

Key Achievements: Optimized the query processing time for scale cloud and cut down the request processing time from 15 seconds to 500 ms. Actively contributed to software design and architectural enhancements.

Deqode Solutions, MP India — Sr. Solution Engineer

Oct 2020 - Oct-2021

- Engineered distributed blockchain based application with Javascript, Solidity and Python .
- Efficiently deployed and integrated application on kubernetes clusters running on GCE and AWS and optimized integration and deployment scripts to improve CI/CD process.
- Liaised with Product Manager to understand the existing challenges with the product and defined feature/hotfix sets to fix and test them e2e.
- Utilized Cloud Foundry for efficient building on top of Kubernetes.

Key Achievements: In minimum time span, learnt Hyperledger Umbrella Frameworks and gained comprehensive knowledge of Multi Tenant Business Blockchain Product and contributed to application development and deployment to realise deadlines.

SKILLS

- Javascript
- NodeJS | ExpressJS
- GoLang
- Hyperledger Fabric | Sawtooth
- Kubernetes | Docker | Docker Compose
- Git Actions CI / CD
- GCE | Terraform
- Design Patterns
- Solidity | Web3 | ERC20 Tokens
- Python
- SQL / No-SQL
- RabbitMQ

Education

Bachelor of Engineering in Information Technology

2014 - 2018

Malwa Institute of Science and Technology, MP India

- Earned various certificates in domains like machine learning, NodeJS and Python.
- Built Machine Learning based medical anomaly detection mobile app using Keras and Cordova

LANGUAGES

English, Hindi, Bengali

Newput Inc., MP India — Software Engineer

July 2018 - Sept 2020

- Developed REST API with NodeJS, SQL and python for scripting.
- Responsible for on-call Production Support during High Value Payment Failures.
- Designed and developed banking solution similar to [Azlo](#) to support Business Payments and Banking backed by [BBVA, USA](#).
- Regular interaction with Bank Representatives to understand premises to realise MVP and to relay bugs and bottlenecks to concerned BBVA dev team.
- Developed Firebase backend for [Tinyview](#) Mobile App.

Key Achievements: Motivated team to adopt best practices around NodeJS Architecture and implemented necessary Design Patterns and Test Frameworks to write reliable and extensible quality code.

PROJECTS

Beriblock — DApp built on Hyperledger Sawtooth and NodeJS

Worked As: Backend and Blockchain Engineer

Roles:

- Developed smart contracts in python to execute business logics within the blockchain execution environment.
- Developed containerized application stack to build full hyperledger sawtooth nodes.
- Designed, developed and deployed clusters of nodes to various cloud providers to manifest as platform-as-a-service.
- Built alerts and monitoring systems to run on every node of a multi-cluster environment.
- Wrote cloud hosted scripts to automate healing and restarts in case of network stalling and disaster.
- Implemented robust Message Queuing mechanisms to bring in reliable transaction life cycle, error handling and automated retries on failure.

Technologies Used:

- Backend: NodeJS, Typescript, ExpressJS
- MQ: BullMQ, Redis
- Database: MongoDB, PSQl
- Blockchain: Hyperledger Sawtooth, Python
- CI/CD: Kubernetes, Terraform, Python, Bash Script, Git Actions

Tuvoli — Business Aviation, Technology and Finances App

Worked As: Backend Engineer

Roles:

- Engineered a microservices architecture to realise a multi-tenant real time application which allows business users to book chartered private flights.
- Implemented security standards and fulfilled compliances laid out by the Bank in storing and facilitating User's Banking Details.
- Spearheaded implementation of Notification System using SQS and Twilio for assured delivery of payment notification.
- Worked with the team to realise the Payments and Banking Service offered by the application which allowed online account opening and B2B money transfers using ACH and Debit Card transfers.

Technologies Used:

- Backend: NodeJS, Typescript, ExpressJS
- MQ: SQS, Redis
- Database: MongoDB, MSSQL
- Scripting: Python, Javascript

Contractor Software Engineer — Remote engineering work for various clients

Worked As: NodeJS Developer

Roles:

- Developed NodeJS based microservices modules.
- Worked with the remote team to augment the existing system and add more feature based modules.
- Setup testing and coverage framework for existing projects and integrated with deployment pipelines.
- Audited Event based nodeJS services and used SQL scripts and python to validate databases on a daily basis.

Technologies Used:

- Backend: NodeJS, Typescript, ExpressJS
- MQ: Redis
- Database: MongoDB, Google Bigquery
- CI/CD: Kubernetes, Docker, Python, Bash Script, Git Actions