

DIBYANSHU

Contact:

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Objective:

To obtain a challenging position that will utilise my skills and experiences and which also gives me a platform to develop new skill sets fulfilling my quest to make a difference.

Career Summary:

- **Director of Technology** at shivom.io - Ncrypt Ventures **Dec 2019 - ***
- **Tech Delivery Lead** at shivom.io - Ncrypt Ventures **May 2019 - Dec 2019**
- Delivery Centric Technology Services Pvt. Ltd. as **MEAN STACK** Developer. **Mar 2018 - May 2019**
- iCordinate Software Pvt. Ltd. as **Full Stack** Developer. **Jun 2015 - Feb 2018**

Skills Summary:

- In course of being in the various roles during my career I have handled **the entire chain from product ideation through exploration and design to launch and iteration**. I have conceptualised new products/features, done first-cut interaction design, created low level mockups, worked with the development teams in coding, design, QA and finally been responsible for product launches.
- **Serverless (Cloud Native) Development** and **Managed App Development** using Containerisation with CI/CD on **Cloud**.
- Comfortable with **FULL/MEAN/MERN - STACK & DEVOPS** using Javascript and frameworks

- **Expertise in Client Interactions and Studying Business requirement's to define Scope of Work. Briefing and Managing team members to achieve desired outcomes.**
- Coded & Developed **Websites** and Phone Apps (**Android & Windows**) from **scratch**.
- **Good understanding of software development life cycle and software development methodologies using best practices.**
- **Team Building and Management**

Hands-On Experiences:

Languages: **NodeJs, ExpressJs, AngularJs, ReactJs, Redux GraphQL, JavaScript(ES-7), Jekyll, HTML5, CSS3**

Testing: **Mocha, Jest, Enzyme, Karma**

Deployment: **Server-less, Containerised** Cloud: **AWS, GCP**

Version Control: **Github, Bit-Bucket** *Containerisation:* **Docker, Kubernetes,**
CI/CD: **Travis CI / Cloud Build / Git Actions** *Understanding :* **Blockchain & IoT**

Published npm module: <https://www.npmjs.com/package/bitcoin-rpc-api> **2019**

Expertise

- Solution Design to meet business requirements
- Implementing Cloud Scalability and auto Deployment following best practices
- Restful/GraphQL Services (API) Development & Testing
- Responsive UI Development with Real Time Push Notification using Web-sockets
- Frontend Development & Integration with Web Services
- Basic SEO and SEM
- Familiarity with Latest Trends and Libraries
- CMS: WordPress & OpenCart Deployment Development and Customisation

Education

B.tech in I.T from Galgotias College of Engg. and Tech. affiliated to **2015**
 Uttar Pradesh Technical University (**UPTU**)

Diploma in I.T from Govt. Polytechnic Ranchi affiliated to State Board of **2012**
 Technical Education Jharkhand (**SBTE**)

New Found Interests: **MQTT, IoT, Raspberry PI 3, Backdoor, KALI**

Projects Summary and Experiences

shivom.io - Ncrypt Ventures

Domain: HealthCare

Roles Served:

Director of Technology

Dec 2019 - Current *

Tech Delivery Lead

June 2019 - Dec 2019

Product:

The project was about building a Software Platform and Marketplace, which enables our users to share their Genetic Data with researchers to help in research of advance precision medicines in such a way that our researcher never actually get hold of user genetic data while still having the ability to run pipelines on those data.

Each use of every user's genetic data incentivised users by rewarding the users with certain amount of our ERC-20 Ethereum token (OMX) based on the demographics of user's genetic data. A particular permission model for sharing those data with certain specific institutions are stored in block-chain enabling transparency of what is being shared, when and with whom, giving control of the data to the users. (**GDPR compliant**)

A marketplace was also introduced to buy and sell certain products which would further incentivise the users to share their genetic data along with the permissions to be kept on blockchain network, they **needed** something more secure with better availability. The main problem was that such revenue sharing solution didn't exist anywhere in the world and deciding from idea to MVP were **facing security issues** in the current product as well as complexity and **scalability was a bottleneck**. Moreover, the cost to run such a monolithic architecture was very high. **They needed an MVP and concrete plan for the product.**

Approach Followed:

- Come up with Analysis Plans and execution strategy to **create the product from scratch**.
- Tech Stack- **Node.js, Express.js, GraphQL, Postgres, React.js, NGINX, Docker, Firebase.**
- Cloud Stack - **AWS and GCP**
S3, Lambda, API-Gateway, DynamoDB, EC2, AMI, IAM, Route 53, Cognito, App Engine, Cloud Build, EKS, Compute Engine, Storage, KMS, GCR, Cloud Function, Cloud SQL, etc ...
- Changed the architecture from a Monolithic to a **Micro-services approach**
- **Planning & Management** - GitHub following Git Flow and Jira(Kanban)

Achievements:

- Responsible for **Product Launch - MVP 1.0 and 2.0**
- Participating in **Investors Meeting** for Technical Discussions. Helped in **securing seed money** from our Global Investors (**\$5 Million**)
- Successfully **Managed 3 teams, 20+ Full-Stack Developers** to achieved the desired results.
- **Monolithic to Micro-services** with scale on demand in mind, running on cloud
- **Coded straight 38 hours** & Implemented the whole transition of shop-page to Marketplace and worked on other modules to keep the development on-going with the team.

Past Projects

CryptoCentric

Role: MEAN Stack Dev(Lead)

Feb 2018 - May 2019

Domain: Fin-Tech

Problem:

The project was about building a **Cryptocurrency Exchange** or in other words an eCommerce platform that deals in **buy and sell of cryptocurrencies such as Bitcoin, Ethers, etc..** for Australian Market. The Company had a similar Project running live for Australian Market using **traditional technologies** primarily such as **.Net, Oracle, MuleSoft on a Windows Environment** and they **needed** something more secure with better availability. The main problem was they were **facing security issues** in the current product as well as **scalability was a bottleneck**. Moreover, the cost to run such a monolithic architecture was huge.

They needed an upgrade.

Approach Followed:

- Leading a team of 6 to rearchitect/develop a parallel solution following TDD
- Cloud based solution from scratch. Tech Stack- **Node.js, Express.js, MongoDB, Angular, NGINX, Docker...**
- Changed the architecture from a Monolithic to a **Micro-services approach**
- A **role-based authorization** mechanism with **refresh token implementation** using **JWT** for authentication.
- From Polling based action model to an **Event based Solution**.
- Version control using GitHub and Deployment on **AWS Elastic Beans**.
- Travis CI for **Continuous Integration and Automation** of Deployment on AWS EBS.
- Used **Google Compute Engine** for running **Blockchain Nodes, such as BTC, ETH...**
- Setup **Load Balancers** for Network Availability. Setup **POLI Payments + OTP Integration + Automated KYC for Australian Citizens**
- Developed and **Published** open-source **NPM Module** from Scratch to communicate with isolated Crypto Nodes to **create e-Wallets**.

Achievements:

- 20% Faster Turn Around in Development
- A much more enhanced Security
- Monolithic to Micro-services with scale on demand in mind, running on cloud
- Reduced the network Bandwidth by 40%
- Cut the Product cost by 60% using Open Source Technologies.

Other Projects

Crystal Travels

Role: MEAN-Stack Dev

Tours & Travel Domain

2017 Sept - 2018 Feb

The project was to connect the customers to **book Air tickets online** from website which was done manually earlier on call, after getting confirmation of the booking, **using Amadeus GDS**(Global Distribution System). The Frontend was Developed in **React.Js v16** and **Material Design** to achieve RWD.

I **created custom APIs** to connect the **Amadeus GDS** to fetch the **real-time Air-fare** and routes and availability based on **RESTful** architecture. I also architected a solution for Admin panel where the user bookings would be managed by the in-house support team. The DB was **MongoDB**. I also implemented **OAuth & JWT** to implement Security for the APIs. For realtime updates I used **WebSocket**-(SocketIO).

Project Name: Scholar Space

Role: Full-Stack Web Dev.

EdTech Domain

2016 Jan – 2017 Sep

The purpose of Scholar Space was to provide a platform where they could have a collaborative platform for all Users of an Educational Organisation. I used **Angular Js** to consume the APIs created by the Backend team. The Backend was developed in parallel using **PHP-LARAVEL** and most of my work was focused on **integrating those RESTful APIs**. I followed **Mobile First Approach to create the Front-End**. For styling I used custom Media Queries to make it fully responsive and worked closely with the design Team as well as the Backend Team. My forte was using Angular Js for the frontend to achieve two-way data binding following **MV*** pattern. I created well commented documented reusable codes. I created custom directives and followed **async code best practices** using **promises and http interceptors**.

Project Name: Vanity360

Role: Full-Stack Dev.

eCommerce Domain

2016 Jan – 2017 Jan

The Project was regarding an eCommerce Website to be developed from scratch. It also included creating Admin panels with different roles and functionalities. I created the whole Responsive website from scratch based on the design files using **HTML/CSS**. I also integrated the **CITRUS PAYMENT SYSTEM** for onsite Payment along with few other Vendors. For Versioning control, I suggested **BITBUCKET** for version control, and for storage I used **AWS Buckets** which increased the page loading time by 35%. Apart from that I also did the styling of the website with custom media queries to make it a mobile first approach.

Project Name: EASYRIDE

Role: Android Dev.

Taxi Sharing Domain

2015 July – 2016 Jan

EasyRide Android App was a project based on the idea of booking cabs, which can be used to provide transportation on demand. I took the charge of POC and completely created a product using **JAVA**. As my tools I used **Android Studio**, and **PARSE server**. The solution I implemented was an app where User can register and get a taxi on demand using the **GPS sensor** of their cellphone. There were two separate views for driver and customer. I coded both the functionalities and the features were very similar to our famous app **Uber**. This product couldn't see the face of light as **Uber** and **OLA** were already customer's first choice and **VCs** were not able to burn cash in the initial days.