

## LANGUAGES AND TECHNOLOGIES

- **Proficient:** Java, Python, C#, HTML5, MongoDB, MySQL, Bash, Kubernetes, Docker, Kafka, Jenkins, AWS.
- **Exposure:** GOLANG, Javascript, ReactJS, AngularJS, Node.js, CSS3, MySQL, Tableau, Machine Learning, GCP.

## PROFESSIONAL EXPERIENCE

### NAV Back Office | Sr. Software Engineer | Jaipur, India

Mar 2022 – Present

- Architected and implemented task scheduling service to fetch more than 50,000 account balances in milliseconds for Crypto trade data used Kafka, Docker and C#, improving the latency by 500%.
- Connected with 10+ Crypto Exchanges to fetch trade and transaction data for hedge fund clients using Python and MySQL, the Main2 application can connect to 95 exchanges.
- Built Scraper service to fetch data from the exchanges using Python and MongoDB.
- Developed application to fetch data from DEFI sources to record trades and balance data from the blockchains, used Python and C#, fetching data from 10+ blockchains.

### Coolberg Beverages | Software Development Engineer / Data Engineer | Mumbai, India

May 2020 – Feb 2022

- Designed and developed Datawarehouse Microservice using Python, Flask and MYSQL to perform analysis on Sales data and create Dashboard on BI tool (DataPine), helped boost sales by 10%.
- Implemented Scheduling Framework to record data periodically from the CRM tool (field assist) to AWS RDS MYSQL instance using flask API framework, leading to 5x faster creation of dashboards.
- Developed continuous integration pipeline to deploy webapp on AWS EC2 instance using Jenkins, GIT webhooks and Gunicorn WSGI server, quenching down testing time by 2x.

### Freelancer | Backend Engineer | Germany, India

August 2020 – Feb 2022

- **TelQ - SMS Testing Platform | Hamburg, Germany**
- Worked with viable GmbH to develop features and to fix bugs in existing web apps using JAVA and Angular.
- Developed features to display correct time based on recipient's time zone, find the closest server to route the message through shortest route using Dijkstra's decreasing delivery time by 1.5X.
- **Gemstone Corp | Jaipur, India**
- Supervised eCommerce website development, using React and JavaScript, to increase online presence.
- Created workflows to update product catalog and upload high resolution pictures to cut company's expenditure by \$40,000 per annum.
- **Agarwal and Sons - Sugar Manufacture | Jaipur, India**
- Developed an in-house tool to manage production sites for accurate calculation of raw materials and finished products using C#, increasing delivery efficiency by 20%.
- Added features to calculate production charges based on the job time and output, payroll integration.

### Hitachi Vantara | Software Development Engineer | Santa Clara, CA

Sept 2017 – Feb 2020

- Lead a team of 5 engineers to implement JWT based Authentication and Role-based access in a microservice-based architecture for UCP Advisor rest API, enhancing the security of the product.
- Developed and maintained REST APIs to integrate UCP-Advisor with the data center infrastructure (Routers, Switches, Storage, Servers, and Vcenter) used Java, GOLANG, and C#.
- Architected, designed and developed the testing framework for the UCP-Advisor REST API service using JAVA, TestNG, and python, which reported over 200 critical bugs.
- Developed a DevOps pipeline for the team to build, deploy, and test the product, using Jenkins, Ansible, and Kubernetes, reducing deployment time by 3X.

**University of Washington | Data Engineer / Research Assistant | Seattle, WA**

Dec 2015 – Jun 2017

- Performed data analysis on genomic sequences locating patterns in RNA using Python, sci-kit-learn, Seaborn, Pandas, Matplotlib, and R, leading to new insights and improved accuracy in Machine Learning models to 93%.
- Created GUI for Docker utilizing No-VNC, Python, and Nginx to containerize applications, making data analysis software portable and easy to set up on cloud-based services, reducing deployment time by 2X.
- Engineered data pipelines and containerized workflow in Docker using Python, Orange ML, and Shell Scripting, ensuring reproducibility of test results, with the system now being used by 5 major research institutes.

**Qikspace | Data Engineer | Seattle, WA**

Jul 2016 – Aug 2016

- Performed data analysis on 400GB of user data (100+ million rows) using Python, Tableau, sci-kit-learn, and Matplotlib, improving UX in the mobile platforms by over 20%.
- Built data pipelines utilizing Python, Java, Docker, and Shell Scripting to automate the data cleaning process by creating rules to increase the productivity of the engineering team, saving the company over \$22,000 annually.

**Kahootz | Software Engineer | Los Angeles, CA**

Jun 2016 – Jul 2016

- Developed user registration, login system, and chrome extension with JavaScript, Node.js, Express, and MySQL with Facebook and Google API integration, reducing email duplication in the database by over 33%.
- Created user dashboards for the entire platform in JavaScript and AngularJS, improving page load times by 2X.
- Deployed system on AWS (EC2 instance for the Node.js server and RDS for MySQL) using JavaScript and Shell Scripting, and Nginx as a load balancer between 5 separate instances.

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**EDUCATION****M.S. Computer Science**, *University of Washington*

2017

**B.S. Computer Science**, *EIILM*

2014

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**PUBLICATIONS****BioDepot-Workflow-Builder**, *bioRxiv*, [link to code](#)

2017

**GUIDOCK-VNC**, *Gigascience*, [link to code](#)

2016