

Vishal Chaurasia

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EDUCATION

- **University at Buffalo, The State University of New York** Buffalo, NY
Master of Science in Computer Science & Engineering; Aug. 2021 – Dec. 2022
 - **Relevant coursework:** Design and Analysis of Algorithm, Information Retrieval, Machine Learning, Blockchain Application Development, Distributed Systems, NLP & Text Mining
- **Dr. A.P.J. Abdul Kalam Technical University** Lucknow, India
Bachelor of Technology in Computer Science & Engineering Aug. 2013 – June. 2017

EXPERIENCE

- **Mindtree Ltd.** Bengaluru, India
Senior Engineer Feb. 2018 – Aug. 2021
 - **Omnipro** (Connect SDK, AWS Lambda, & Angular 7): Customer Contact Operations Web Application enabling faster on-call support with real-time monitoring.
 - Developed custom UI modules enabling receive/hold call & warm/cold transfer operations & enabled bi-directional communication between independent modules through Web-Sockets.
 - Coded Lambda APIs to determine call queue wait time.
 - Awarded Top Performer for year 2020-21.
 - **Corda Low Code Engine** (Spring Boot & Angular 7): Low-Code platform automating project setup & boiler-plate code generation based on user-input.
 - Spearheaded end-to-end project development constituting a team of 2 full-stack developers.
 - Engineered application architecture & modules for project/network config & boilerplate code generation.
 - Project helped reduce further application development time by 30%.
 - **Delta Bank** (R3 Corda, Spring Boot, Ionic 5, & Angular 5): Reward Management & Redemption Application for tier-1 airline.
 - Designed hibernate based data schemas and process flow for creating and updating the schemas.
 - Created Terraform resource provisioning scripts & CI/CD flows for application deployment on Azure AKS Clusters.
 - Headed initiatives to automate resource provisioning, build & deployment of projects across multiple platforms.
 - Application reduced overall reconciliation time across partner vendors by 80%.
 - Awarded Outstanding performer of year 2019-20.

ACADEMIC PROJECTS

- **Multilingual Search System** (Python, Solr, & Angular 13): System analyzing general population's reaction on Twitter.
 - Devised an IR system with a corpus containing 3 million tweets in 3 languages & countries on COVID-19 & Vaccines.
 - Incorporated Location Analysis and Sentiment Analysis to analyze public response in each country portrayed using different Data Visualization methods like Word Cloud, and Graphs.
 - Performed TF-IDF based Topic Modelling to determine top trending topics in overall corpus & search results.
- **MediC - Medical Payments Ecosystem** (Solidity, NodeJS, & Angular 13): Blockchain based Expense Settlement Platform.
 - Programmed ERC-20 based token smart contract using Solidity & designed MongoDB schemas for off-chain data storage.
 - Deployed smart contract on Ropsten testnet & integrated it to Angular Client Side using Web3Js.

SKILLS

- **Languages & Frameworks:** Python, Java, Angular 2+, NodeJS, Express, Spring Boot, Solidity
- **Blockchain Platforms:** Ethereum, R3 Corda
- **Tools:** Git, Gitlab-Runner, Postman, Truffle
- **Build Tools:** Terraform, Gradle, Jenkins, Docker
- **Database:** MongoDB, PostgreSQL, MySQL

WHITEPAPERS

- **Proxy Re-Encryption-based Data Sharing Framework:**
Co-authored & Conceptualized framework utilizing Proxy Re-encryption for secure data exchange between users eliminating need to exchange private keys.