

# Vishal Chaurasia

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## EDUCATION

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- **University at Buffalo, The State University of New York** Buffalo, NY  
*MS Computer Science & Engineering; GPA: NA* Aug. 2021 – June. 2023
  - Relevant coursework: Design and Analysis of Algorithm, Information Retrieval, Machine Learning, Blockchain Application Development
- **Dr. A.P.J. Abdul Kalam Technical University** Lucknow, India  
*Bachelor of Technology in Computer Science & Engineering (First Division)* Aug. 2013 – June. 2017

## EXPERIENCE

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- **Mindtree Ltd.** Bengaluru, India  
*Senior Engineer* Feb. 2018 – Aug. 2021
  - **Omnipro:** Managed modules pertaining to inter-project communication between Micro-Frontend projects & integrated Connect SDK/AWS Lambda API with Angular 7 User Interface.
    - Developed custom UI modules for receive/hold calls & warm/cold transfer.
    - Familiarized new resources to application architecture & standard development practises.
    - Coded Lambda APIs to determine call queue wait time.
    - Delivered modules with 85% code coverage.
  - **Corda Low Code Engine:** Spearheaded end-to-end project development using Spring Boot & Angular 7, reducing future application development time by 30%.
    - Engineered application architecture & modules for project/network config & boilerplate code generation.
    - Trained junior resources on R3 Corda advance concepts and Dapp development.
  - **Delta Bank:** Lead R3 Corda & Mobile Application development for tier-1 airline reward management system reducing overall reconciliation time across partner vendors by 80%.
    - Coordinated with other team members for Spring Boot application Development.
    - 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.
  - **Ripe.io:** Handled sensor data capturing & database schema modules for supply chain management, implemented on R3 Corda Platform along with Spring Boot.
    - Designed application back-end API for polling online sensor data & updated values on ledger.
    - Designed database migration scripts for initial schema setup in remote db.
  - **Identity Management Platform:** Conceptualized & Lead Ethereum based document sharing and management platform using Proxy re-encryption.
    - Analysed end-user requirements to map use-case with relevant blockchain platform.
    - Programmed Solidity smart contract & integrated enabling automated data access management.

## PROJECTS

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- **Multilingual Search System For Twitter**  
An end-to-end IR solution including data collection, search optimization & multi-lingual data analytics using Python 3, Apache Solr & Twitter API.

## WHITEPAPERS

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- **Proxy Re-Encryption-based Data Sharing Framework**  
Co-authored & Conceptualized framework utilizing Proxy Re-encryption for secure data exchange between users. It functioned on idea of Zero Knowledge Proof Protocol eliminating the need to exchange private keys between sender and receiver.

## SKILLS

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- **Languages & Frameworks:** Python, Java, Angular 2+, JavaScript, NodeJS, Express, Ionic 5, Spring Boot, Solidity
- **Blockchain Platforms:** Ethereum, R3 Corda, **DAML Build Tools:** Terraform, Apache Maven, Gradle, Jenkins, Docker
- **Tools:** Git, Gitlab-Runner, Postman, Truffle Suit, Geth **Database:** BigchainDB, MongoDB, SQL Server, PostgreSQL