AMITOSH ANAND

Software Engineer with 3.5 years of professional experience in building reactive/proactive, reusable, robust and performant solutions with state-of-art technologies in distributed/ microservice architecture. Strong academic background with Masters in Computer Science from IIT. Pursuing lead tech roles while having broad-spectrum domain knowledge, deep hands-on technical understanding and research faculties with experience in effort estimation, prioritisation and task division.

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EXPERIENCE

Software Development Engineer II

OLA

July. 2017 – Present | Bangalore

- Leading tech for OLA's Supply Self-signup/ Partner On-boarding platform **drive.olacabs.com** back-end and Agent assisted Onboarding platform "**Suvidha**", rearchitecting major business flows reducing onboarding TAT for driver partners, preventing frauds and non-compliance.
- Scaled the onboarding platform for international geography reducing TAT for any city/country launch
- Designing features to improve metrics pertaining to partner experience, onboarding SLA, city launches, dynamic document configurations, application lifecycle and state management.
- Initiated numerous tech tasks addressing non-functional and cross cutting concerns like monitoring(Prometheus and Grafana), caching (Redis), rate limiting, circuit breaker.
- Implemented features in OLA's supply Inventory management system for compliance of driver partners, real-time monitoring, alerting and blocking non-compliant partners.
- Integrated multiple 3rd party services enhancing self-serve features, digitisation, ticket verification, background checks and training for driver partners
- **Stacks: NodeJs | MongoDb | Java(Spring) | MySql**

Software Development Engineer I

Foodpanda

Aug. 2018 – Dec. 2018 | Bangalore

- Improved legacy architecture of partner restaurant billing system while introducing new features for audits and tax compliance.
- Improved utilization and performance, through transition from batch system to event based system. Removed concurrency issues causing degraded performance like spinlocks, thread pool saturation and deadlocks.
- Stacks: PHP | Symphony | Doctrine | Nginx | Python(Django)

Summer Analyst

Goldman Sachs

May. 2015 – July. 2015 | Bangalore

- Developed an E2E system for capturing, auditing and reporting queries on Hive Database with interactive visualization.
- Monitoring Data lineage for Data Governance in Big data ecosystem.
- **Stacks: Java | Springboot | mongoDb | Hive | Elastic Search | Kibana**

EDUCATION

M.Tech/B.Tech. | Computer Science & Engineering

Indian Institute Of Technology(BHU)

2012 – 2017 | Varanasi, U.P.

CPI 9.17/10

ICSE, Xth

Don Bosco Academy, Digha

2009 | Patna, Bihar

97.6%

TECH STACKS

NodeJs ●●●●●

Java 8 ●●●●○

SKILLS

Languages / Frameworks

JavaScript , Java , TypeScript, ExpressJS, KoaJs, ReactJs, REST API

Databases / Cache / PubSub

MongoDb , MySql, Redis, Kafka

Infra / CICD / Monitoring

AWS, Prometheus, Grafana, New Relic, Jenkins, Docker, Git, NPM, Maven

Libraries

Spring, Mongoose, AsyncJs, Lodash, ShimmerJs, SiftJs, Hibernate, Lombok, JWT, Neural nets(CNN,RNN,DNN), ML(Keras, Weka)

Other

Scrum, SOLID, MVC, Big Data, OAuth, Linux, Bash, Zendesk

PROJECTS

Comparative study of privacy preserving machine learning techniques

Post Graduate/ Master's Thesis

2017 | IIT BHU, Varanasi

C++ | **Homomorphic Encryption** | **Differential Privacy** | **ANN**

This thesis compares various differentially private machine learning and prediction techniques. Novel methods based on ANN, Decision Trees, Linear Classifiers and SVM are discussed and evaluated. A differentially private machine learning pipeline involving training ANN with encrypted data and subsequent prediction using the generated model has been proposed. Acceptable accuracies were achieved for classic datasets including Standardized Audiology Database, Credit approval, Human activity recognition and Wisconsin Breast Cancer Database

A Hybrid Modeling Approach for Software Clone Evolution Prediction, EECS-2164

International Conference on Electrical Engineering and Computer Sciences

Dec-18, 2015 | Hong Kong

C++ | **UML** | **Java** | **Python**

Both software evolution and maintenance are directly and indirectly depend on the amount of cloned fragments in the software. This paper focuses on identification and prediction of Software clones in multiple versions through time series modelling. AST, String Matching and Metric Based approaches were used for identification and ARIMA was used for prediction. A hybrid model(ANN + ARIMA) has also been proposed in the paper.

ACHIEVEMENTS

20th Nationwide
2016 | Microsoft Build the Shield,Ranked 20th Nationwide On site Security and Hacking Competition, Captaining team Quantum Monks

Gold Medal
2017 | Ranked 1st in Integrated Dual Degree (B.tech+M.tech) in Computer Science-IIT BHU

POSITIONS

Teaching Assistant

IIT BHU

Teaching assistant for multiple courses including C/C++ programming, Compiler Design, Parallel Computing, Database for Undergrad students for 4 years in college.