AMITOSH ANAND

Software Engineer with 3.5 years of professional experience in building reactive, robust and performant solutions with state-of-art technologies for Web Technologies. Strong academic background with Masters in Computer Science from IIT. Pursuing challenging roles while having broad-spectrum domain knowledge, research and leadership faculties.

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EXPERIENCE

Software Development Engineer II

OLA

July. 2017 – Present | Bangalore

- Owner of OLA's Supply Self-signup/ Partner On-boarding platform **drive.olacabs.com** back-end micro service, developed with MEVN stack.
- Designing, developing, deploying and debugging features to improve metrics pertaining to partner experience, onboarding SLA, city launches, dynamic document configurations, application lifecycle and state management, under strict timelines.
- Initiated numerous tech tasks addressing non-functional and cross cutting concerns like monitoring(Prometheus and Grafana), authentication, access control, logging, dynamic configuration, caching(Redis), rate limiting, circuit breaker and code quality.
- Implemented features in OLA's supply Inventory management system for compliance of driver partners, reactively monitoring, alerting and blocking non-compliant onboarded partners.
- Working in Agent assisted Onboarding **suvidha.olacabs.com** rearchitecting major business flows reducing onboarding TAT for driver partners. (Node Js, MongoDb, Express)
- Incorporated various 3^{rd} party client integrations enhancing self-serve feature for driver partners (NodeJs, MongoDb)

Software Development Engineer I

Foodpanda

Aug. 2018 – Dec. 2018 | Bangalore

- E2E owner of Restaurant Billing System for Foodpanda India.
- Improved legacy architecture of partner restaurant billing system while introducing new features for audits and tax compliance.
- Improved throughput, 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

Summer Analyst

Goldman Sachs

May. 2015 – July. 2015 | Bangalore

- Developed an end to end system for capturing, auditing and reporting queries on Hive Database with proper 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

Gold Medal | CPI 9.3/10

ICSE, High School

Don Bosco Academy, Digha

2009 | Patna

4th Rank in State | 97.6%

TECH STACKS

- NodeJs ●●●●●
- MongoDb ●●●●●
- Java 8 (Enterprise) ●●●●○
- MySql ●●●●●

SKILLS

JavaScript, ExpressJs, KoaJs, Java, ReactJs, DS/Algorithms, TypeScript, Redis, Docker, Spring, Jenkins, Kafka, Mongoose, Hibernate, MVC, AWS(EC2, S3, SQS, SNS), REST API, Git, Neural nets(ANN, CNN, RNN, DNN), Machine learning(Keras, Weka)

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

PROJECTS

Comparative study of privacy preserving machine learning techniques

Post Graduate/ Master's Thesis

2017

This thesis aims to bring forth recent trends in differentially private machine learning and prediction techniques. Few novel methods to tackle privacy issues have have been discussed and evaluated. The machine learning techniques used are based on Artificial Neural Networks as well as Decision trees,Naive Bayes and Linear Classifiers. Through this thesis, we wish to present a pipelined architecture where the ANN model is built privately from the train data in first phase. The second phase deals with prediction on encrypted data. The latter phase makes use of the recently developed methods of Homomorphic encryption. We show acceptable accuracy achieved through training and testing on Letter Recognition dataset from UCI as well as some performance evaluation on some 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

IIT BHU

2014

This paper focused 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.

99.9 percentile
2012 | IIT-JEE, Ranked 2695 in 1 million candidates for selection in Indian Institutes of Technology

POSITIONS

Teaching Assistant

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