

VAIBHAV SRIVASTAV BANDIKATLA

Stony Brook University | Senior SDE @ PayPal | Cloud Admin @ COMPAS | IIT Varanasi

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EDUCATION

MS in Computer Science

Stony Brook University

Aug 2019 – May 2021

Stony Brook, New York

Distributed Systems, Data Science Fundamentals, Analysis of Algorithms, Theory of Database systems

Integrated Dual Degree in Computer Science

IIT (Banaras Hindu University)

July 2012 – May 2017

Varanasi, India

TA for IT Workshop, Real-Time Systems and Graphics

EXPERIENCES

Cloud Administrator

COMPAS Lab (Prof. Mike Ferdman), Stony Brook University

Jan 2020 – Present

Stony Brook, New York

- Currently administering the cloud system (similar to EC2) by troubleshooting issues faced by researchers, and adding new machines to the cloud while transitioning few to Proxmox from OpenStack, and maintaining them using Ansible.
- Planning to work on generating IaC for efficient instance deployments and load balancing. And use Qinling to support serverless functions.

Senior Software Developer - Full Stack

PayPal

Feb 2019 – May 2019

Bangalore, India

- Created **Zeus** (full-stack personal project), which provides insights into internally customized business logic of our production components. It is also being used by PayPal's upper management to track our product's KPI.
- Exposed a GraphQL endpoint **/aftermath** from Zeus to automate daily monitoring of anomalies and involve respective teams via slack and outlook using cron jobs, which boosted productivity by ~60%
- Worked with a team of 3 on designing near real-time transactional insights API to few strategic partners by storing pre-processed marketplaces data onto an elastic search cluster.

Software Developer - Full Stack

PayPal

July 2017 – Feb 2019

Bangalore, India

- With a team of 2, implemented tracking of relevant user actions in onboarding web-app flow for detecting live errors, and user engagement patterns.
- Worked on Java Daemon and Batch components, and improved the functional test performances of an onboarding web-app and partner insights components by 37 mins. and 14 mins. resp. by executing concurrently.
- Created a Node.js cross-platform CLI tool (personal project) for automating quick resolutions of few repeating JIRA issues and tasks, which reduced the time spent on these issues by ~80%
- Acted as a PoC for a strategic partner, and a mentor for 2 interns.

SKILLS

C++, Java, Node.js, React, Python, Go, MySQL, GraphQL, HTML/CSS, Jenkins, Ansible, OpenStack, Bash, AWS, Nginx

PUBLICATIONS

Genetic Algorithm based Parallel Matrix Factorization for Recommender Systems in 15th International Conference on Information Technology (ICIT) IEEE 2016.

PROJECTS

Fault Tolerant Replicated State Machine Implementation | Distributed Systems

- Implemented a MapReduce library that supports sequential and distributed operation modes, and is resilient to worker failures.
- Extended a key-value replication service with log compaction using Raft protocol and RPCs.

Dynamic route optimizer on SDN platform using POX controller (Dr. Hari P. Gupta)

- Modifying Bellman Ford algorithm, configured POX to dynamically learn real-time network from SDN switches and route packets.
- Using 2 Clients, 1 Server and 2 Zodiac Fx Switches, the latency was brought down by 9.54%. And for a 14 client simulation with random network params in Mininet, it was brought down by 13.05%

Movie Rating Prediction using Sentiment Analysis of Streaming Tweets

- 19K tweets analyzed by 3 class labels with Naive Bayesian and SVM classifiers, with an accuracy of 63%, and 71.1% against IMDB.
- Implemented using HDFS, Flume, Hive, Twitter API, NLTK and, with a team of size 2.

COVID-19 Tracker Website

- Using React, Hooks, Material UI and ChartJS built an application to display the current country wise spread of the virus.
- <https://covid-tracker-alpha.now.sh/>

ACHIEVEMENTS

- 97.94 percentile across 19 competitions on HackerRank.
- Ranked 3rd in a IIT BHU Hackathon, by building a news aggregator android application.
- Ranked 6th in 2017 PayPal India Competitive Programming Contest.
- PayPal Tech Expo 2018 stall presenter, where our team won "Most Engaging Stall" award.
- Part of Stony Brook Competitive Programming Club and Chess Club.
- Chess coordinator for SPARDHA (IIT BHU) 2015 and ranked 2nd in the competition.