Software Engineer $\,\cdot\,$ Machine Learning $\,\cdot\,$ San Francisco, CA

Vaibhav **Agrawal**

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Work Experience

Twitch (Amazon)

Software Engineer II

- · Leading re-architecture and build of a scalable and extensible payments platform that makes it easy to build and sell digital products
- Co-led the architecture and design of an in-house recurring billing engine that replaces subscription management vendors
- · Led the design and migration of async payments flow from a legacy monolith service without any downtime
- · Introduced regression and component testing in critical payment paths that perform tests at scale and thus reduce toil and induce trust
- Mentored a summer intern, coaching them through the design, planning and implementation of a product-facing project

New York University

SOFTWARE DEVELOPER

- Built a REST-driven web application for a New York University tutoring program using Django, PostgreSQL and React
- · Designed a dedicated algorithm to match students and tutors into individual and shared tutoring sessions

Salesforce

Associate Product Manager Intern

- Built a core release management tool on GUS to provide users a seamless agile experience in their production cycle
- Worked directly with end-use customers to identify existing pain points while collaborating cross-functionally with engineering and UX teams

Education

New York University

M.S. IN COMPUTER SCIENCE (GPA: 3.85/4)

• Algorithms, Database Systems, Big Data, Cloud Computing, Application Security, Deep Learning, Computer Networking, OS, Advanced Java

Indian Institute of Technology

BACHELOR OF TECHNOLOGY (GPA: 9.03/10) | GOLD MEDALIST

- Holder of 2019 Anukul Chandra Sarkar Memorial Gold Medal for achieving highest GPA in the department
- Algo & DS, Switching Circuits & Logic Design, Computer Architecture, OS, Parallel Programming, Probability & Statistics, ML, NLP, AI

Skills

ProgrammingGolang, Python, C++, JavaFull Stack ToolsAWS, Docker, Terraform, gRPC, GraphQL, Jenkins, Bash, REST, Django, React.js, Swift(iOS), AndroidDatabasesPostgreSQL, RDS, DynamoDB, MongoDB, MySQLML & Big DataMapReduce, Spark, Kafka, ElasticSearch, Kibana, Scikit-learn, Pandas, Pytorch, Tensorflow, NLTK, Scala, RBlockchainSolidity, Ethereum, Web3.js, Consensus, Cryptography, DApps Architecture, IPFS & Hashgraph

Projects & Publications

Designing Microservices on AWS

CLOUD COMPUTING, DEPARTMENT OF COMPUTER SCIENCE (NYU)

• Built server-less web apps for smart door authentication, email spam filtering and NLP powered photo search using various AWS tools

Twitter Bot Detection

BIG DATA, DEPARTMENT OF COMPUTER SCIENCE (NYU)

• Built a big data ML model to identify Twitter bots spreading election propaganda with an accuracy of 91% using SparkML, MongoDB and Kafka

Journal of the Eastern Asia Society for Transportation Studies (EASTS)

Author of: "Crash Severity Analysis Through Nonparametric Machine Learning Methods" (Cited by 5)

• Explored three ML algorithms to identify critical factors affecting severity of accidents and achieved the best accuracy of 90% with XGBoost

Computational Sanskrit & Digital Humanities (17th World Sanskrit Conference)

Author of: "Improving the learnability of classifiers for Sanskrit OCR corrections" (Cited by 6)

• Improve the accuracy of word corrections up by 10% by introducing semantic language constraints of the Sanskrit grammar

• Further demonstrated different machine learning approaches like attention models and achieved the best F-score of 93.72 with LSTM

San Francisco, CA

Mar. 2021 - PRESENT

induce trust

Oct. 2019 - Dec. 2020

New York, NY

New York, NY

June. 2020 - Aug. 2020

New York, NY Sept. 2019 - Dec. 2020

Kharagpur, India

July. 2015 - Aug. 2019

New York, NY

Spring. 2020

New York, NY

Spring. 2020 Band Kafka

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Dec. 2019

Vancouver, Canada

July. 2018