

Vaibhav Agrawal

SOFTWARE ENGINEER · SAN FRANCISCO, CA

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Work Experience

Twitch

SOFTWARE ENGINEER

San Francisco, CA

Mar. 2021 - PRESENT

- Currently working on improving quality and adding testing coverage for critical payment paths using Go
- Identified and helped resolve a critical bug that was impacting more than 50k users every month
- Upgraded infrastructure across all services to add support for AWS SSM and also mitigated risks while deploying to production

FITL Center, New York University

SOFTWARE DEVELOPER

New York, NY

Oct. 2019 - Dec. 2020

- 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

PRODUCT MANAGER INTERN

San Francisco, CA (Remote)

June. 2020 - Aug. 2020

- 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
- Validated product roadmap while collaborating cross-functionally with engineering and UX teams

Education

New York University

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

New York, NY

Sept. 2019 - Dec. 2020

- 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)

Kharagpur, India

July. 2015 - Aug. 2019

- Holder of 2019 Anukul Chandra Sarkar Memorial Gold Medal for achieving highest GPA in the department
- Algorithms and Data Structures, Switching Circuits and Logic Design, Computer Architecture, Operating Systems, Parallel Programming, Probability and Statistics, Machine Learning, Artificial Intelligence, Natural Language Processing

Skills

Programming	Go, Python, C++, Java
Full Stack Tools	AWS, Docker, Terraform, gRPC, GraphQL, Jenkins, Bash, REST, Django, React.js, Swift(iOS), Android
Databases	PostgreSQL, RDS, Dynamo, MongoDB, MySQL
Big Data & ML	MapReduce, Spark, Kafka, ElasticSearch, Kibana, Scikit-learn, Pandas, Pytorch, Tensorflow, NLTK, Scala, R

Projects & Publications

Designing Microservices on AWS

CLOUD COMPUTING, DEPARTMENT OF COMPUTER SCIENCE (NYU)

New York, NY

Spring. 2020

- 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)

New York, NY

Spring. 2020

- 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"

Japan

Dec. 2019

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

17th World Sanskrit Conference (IASS)

AUTHOR OF: "IMPROVING THE LEARNABILITY OF CLASSIFIERS FOR SANSKRIT OCR CORRECTIONS"

Vancouver, Canada

July. 2018

- 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