

Vaibhav Agrawal

SOFTWARE ENGINEER · SAN FRANCISCO, CA

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Work Experience

Twitch (Amazon)

San Francisco, CA

SOFTWARE ENGINEER

Mar. 2021 - PRESENT

- Migrated legacy monolith Rails async jobs to Go based microservices using AWS Lambda, Fargate and Stepfunctions
- Introduced component style table testing for critical payment paths and refactored the flow to builder design pattern in Go
- Identified and helped resolve a critical bug that was impacting more than 50k users every month

FITL Center, New York University

New York, NY

SOFTWARE DEVELOPER

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

San Francisco, CA (Remote)

PRODUCT MANAGER INTERN

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

New York, NY

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

Sept. 2019 - Dec. 2020

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

Indian Institute of Technology

Kharagpur, India

BACHELOR OF TECHNOLOGY (GPA: 9.03/10)

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, DynamoDB, MongoDB, MySQL
Big Data & ML	MapReduce, Spark, Kafka, ElasticSearch, Kibana, Scikit-learn, Pandas, Pytorch, Tensorflow, NLTK, Scala, R

Projects & Publications

Designing Microservices on AWS

New York, NY

CLOUD COMPUTING, DEPARTMENT OF COMPUTER SCIENCE (NYU)

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

New York, NY

BIG DATA, DEPARTMENT OF COMPUTER SCIENCE (NYU)

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)

Japan

AUTHOR OF: "CRASH SEVERITY ANALYSIS THROUGH NONPARAMETRIC MACHINE LEARNING METHODS"

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)

Vancouver, Canada

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

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