

Ayush Srivastava

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Software Skills: Python, Java, TypeScript (Node/React), Go, C++, GraphQL, SQL, Git, AWS, Kubernetes

Data Science Skills: XGBoost, LightGBM, Pandas, NLTK, Neural Networks (CNN, RNN), OpenCV, Tableau

WORK EXPERIENCE

Goldman Sachs

June 2020 - Present

Quant Analyst (Asset Management Division)

Dallas, TX

- Took **ownership** of platform used to track investment performances and send reports to senior management, revised design **documentation**, **managed client** requests, architected side project to enhance semantic search
- **Automated ETL pipeline** for app for each global region, set up automated jobs to extract CSV reports from internal API, validated/transformed data from **SQL** queries touching **+100 tables** loaded onto **Sybase DB**
- Spearheaded mission to establish **GraphQL API** as the primary data access layer for the division to make query generation intuitive, held firm wide GraphQL **knowledge sharing** seminar to advance tech stack
- Mapped out **data lineage** and identified bottlenecks and redundancies to optimize **division wide data model**
- Spent **250+ hours on call** working with Risk and Controllers teams to urgently fix pricing inconsistencies in production database critical to business needs, documented resolutions and **mentored** new joiners
- Increased platform stability by designing **test suite** with **65%** code coverage, developed **Elasticsearch** based alert system decreasing daily unmonitored app errors by **80%** and set up validations for database connections

Goldman Sachs COVID-19 Datathon (2 weeks)

- Shortlisted from 150+ teams as **top 6 in the US** to present insights from covid dataset to senior leadership
- Leveraged **Tableau** and ML to elicit correlations between weather and spread of COVID-19 using the R0 factor

FlexTrade Systems Inc.

Summer 2019

Software Engineering Intern (Algorithms Team) - API management and Full Stack development

New York, NY

- Led client project and created a **multi-threaded java proxy server** to pull market orders from client API
- Parsed live orders from Order Manager to create API requests and use response to make routing decisions
- Optimized full-stack **React App** load time by **300%** and enhanced **UI** for traders to monitor top orders

IBM (Cloud Private)

Summer 2018

Software Engineering Intern (Platform API team) - Testing and Cloud development

Raleigh, NC

- Improved **CLI** functionality for Cloud Private package by implementing new commands for env setup
- Increased code coverage by **10%** (+10,000 lines) through **automated tests** written in **Go** and **bash scripting**
- Integrated **15+ API's** into ICP platform using **Helm Charts** deployed using **Kubernetes** and **Docker** containers

RESEARCH PROJECTS

PrivacyCheck: (Startup) Privacy Policy Analysis using Machine Learning

Spring 2020

- Designed **chrome extension** using **ReactJS** and expanded **AWS Lambda** backend to handle **GDPR** analysis
- Applied **NLP** techniques to generate abstracts of policies and pass them into **LightGBM** ML model for scoring
- Deployed app to Chrome Web Store with **+1000** users and had our research paper published in **CIKM 2020**

Gaze Tracked Foveated Rendering

Spring 2020

- Simulated human vision by tracking gaze and applying radial filters around focal point for **VR** optimization
- Achieved **78%** accuracy with **XGBoostClassifier** for gaze prediction with an image **compression ratio of 20:1**

Texas Spacecraft Laboratory

Spring 2019 - 2020

- Worked on the software development team designing a **pose estimation** and prediction algorithm using a **convolutional neural network** (PosCNN) and **stereo computer vision** (OpenCV) to assist with satellite docking

EDUCATION

The University of Texas at Austin: B.S. in Electrical and Computer Engineering

Aug 2016 - May 2020

Relevant Coursework: Digital Image and Video Processing, Data Science Lab, Intro to Data Mining, Algorithms, Computer Architecture, Computational Linguistics, Software Design & Implementation, Embedded Systems

Work Eligibility: American Citizen