ABHINAV SHARMA

SOFTWARE ENGINEER

DATA SCIENCE &
CLOUD INFRASTRUCTURE

OBJECTIVE

Experienced software engineer with a proven track record of successfully driving platform transformations and improvements on large scale cloud services. Passionate about cloud infrastructure and designing scalable machine learning applications. Looking to collaborate in highly functional, high quality environments to drive engineering and process excellence.

SKILLS & ABILITIES

Languages

Python, C#, R, SQL, Kusto (Azure Data Explorer), Java (working knowledge)

Tools & OS

Windows (Fluent), Ubuntu (Intermediate), Azure, AWS, Visual Studio, PySpark, Map Reduce, Git, Jupyter, NVIDIA Jetson, Excel (Solver), RStudio, Docker, CI/CD

Miscellaneous

Experiment Design, Deep Learning, Statistics, Machine Learning, Algorithm & System Design

DETAILS

Address

1915 Second Ave, Seattle, WA

Contact

516-655-5189 | abhinav.sharma@columbia.edu

Social

Github | LinkedIn

RELEVANT EXPERIENCE

SOFTWARE ENGINEER | MICROSOFT | REDMOND, WA | FEB 2016 – NOW

Azure Cognitive Search (June 2018 – Present)

- Led architecture for scalable near real-time emergency zero-touch secret rotation for a fleet of 70k+ VMs.
- Led several tooling scenarios for improved livesite automation, diagnostics, better access control and health models – in several clouds (public & sovereign).
- Worked on several critical initiatives pertaining to the JEDI project – regional billing migration, telemetry obfuscation, zero touch service buildout, Devops tooling improvements, setting up scalable alerting infrastructure across multiple clouds.
- Received promotions twice on the team and interviewed / mentored several incoming members to help onboard to the service.

Azure Networking (Feb 2016 – June 2018)

- Developed a scalable framework for deploying and monitoring continuous e2e integration tests to validate early features for Azure Networking. Caught several potential large-scale outages in low traffic regions. The service is now used by over 100 teams for feature validation and outage detection across 50 regions.
- Led architecture & provided 24 x 7 livesite support with remote teams.

INTERNSHIPS & SELECT PROJECTS

SWE INTERN | MICROSOFT | REDMOND, WA | SUMMER 2015

- Designed a web app to track livesite health of Azure Networking services to help engineers triage, correlate and troubleshoot service issues.

TEACHING ASSISTANT | COLUMBIA UNIVERSITY | NYC, NY | 2015

Python Based Data Analytics – Columbia Engineering
Service Operations Management – Columbia Business School

STUDENT ANALYST | NYC, NY | FALL 2014 - SPRING 2015

- *[Fresh Direct]* Designed a model for predicting customer lifetime value for customers in R.
- *[Booz Allen Hamilton]* Designed a model for calculating cost of security breaches in the enterprise.

DATA SCIENCE PROJECTS | U.C. BERKELEY | SEA, WA | 2020 - 2021

Facial Key Points Detection (Kaggle – Top 50).
Racial & Gender Bias Experiment Design for the US Coast Guard
Bird Call Classification in the wild using Transfer Learning at the Edge
Crime Rate Regression Analysis on County Data in North Carolina
Airline Delay Classification using PySpark (Cloud ML on 30 M datapoints)
ShapSum: A Framework to Predict Human Judgement Text Summarization Quality

EDUCATION

U.C. BERKELEY – BERKELEY, CA — *2020 - PRESENT*
M.S. DATA SCIENCE

COLUMBIA UNIVERSITY – NEW YORK, NY — *2014 - 2016*
M.S. MANAGEMENT SCIENCE & ENG.

MANIPAL UNIVERSITY – MANIPAL, INDIA — *2010 - 2014*
B.E. COPMUTER SCIENCE & ENG.