

Sparsh Srivastava

Software Engineer | Graduate Candidate at Columbia University

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An innovative professional and part-time graduate student, with experience in modern software architectures and cutting-edge technology services.

WORK EXPERIENCE

Google Sunnyvale, CA

Software Engineer

Apr 2022 - Present

- Delivered an RPC service used to generate forced updates for nearly 3M stuck out-of-sync customers of the Google Admin console, written in Java.
- Contributed crucial product adoption & engagement metrics and per-service SLO burndown monitoring dashboards for the Beta and GA launches of Trust Rules for Docs & Drive.

Capital One

McLean, VA

Senior Associate Software Engineer

Aug 2021 - Mar 2022

- Designed and implemented secure API authentication for the distributed machine learning platform, written in Python, validating several million requests per day.

Associate Software Engineer

Aug 2020 - Aug 2021

- Maintained end-to-end ownership of an event-driven fraud feature calculator, written in Python and Go, utilizing cloud-native architecture and streaming data to provide real-time features.
- Partnered and coordinated with multiple teams across Capital One to implement voice biometrics for incoming callers, substantially reducing account takeover fraud for over 45 million card customers.
- Improved feature retrieval latency for DynamoDB items by 1000%, from milliseconds to microseconds, using cloud-native in-memory caching to allow near real-time response to card fraud.

Software Engineering Intern

Jun 2019 - Aug 2019

- Received U.S. patent for PoC research on updating microservice configurations in distributed architecture with zero downtime, leveraging asynchronous consumption from a shared SDP topic.

EDUCATION

Columbia University in the City of New York

New York City, NY

M.S. in Computer Science, Machine Learning

Expected May 2024

- Relevant courses: Computer Vision, Computational Learning Theory, Machine Learning for Genomics

Virginia Polytechnic Institute & State University

Blacksburg, VA

B.S. in Computer Science, Economics minor

Aug 2016 - May 2020

- Relevant courses: Data Structures & Algorithms, Systems & Networking, Computer Architecture

PROJECTS

Cloud Mining Platform

Jan 2020 - Present

- Cryptocurrency mining platform, designed for scalability, to take advantage of the processing power across user mobile devices, written in Python.

Marchi Application

Aug 2020 - Jan 2021

- Travel assistant progressive web-application with an innovative UI/UX, designed in TypeScript for mobile with React Native, and backend APIs using Node.js, Express, and PostgreSQL.

CERTIFICATIONS

- AWS Certified Solutions Architect - Associate (SAA-C02)

Jun 2021

SKILLS

- Fluent:** Golang, Python, Java, C, **Advanced:** TypeScript, JavaScript, **Proficient:** Swift/SwiftUI, C++
- AWS EC2, ECS, EMR, Lambda, IAM, DMS, DynamoDB, DAX, Aurora PostgreSQL, Kinesis Stream, Docker, Kubernetes, Jenkins, Terraform, SQL, Datadog, Splunk, ELK, New Relic, Snowflake, Cucumber, Gherkin, Godog, Apache Kafka SDP, Node.js, React, React Native, AngularJS, Ionic, Jira, GitHub