VIDIT BHARGAVA

vvb238@nyu.edu | +1 (646) 220-0862 | New York City, NY, USA
Github: vidit23 | LinkedIn: vidit23

EXPERIENCE

Uber   May 2020 - Aug 2020
Backend Engineering Intern, Expansion team   San Francisco, CA
· Delivered a production-level solution to replace messy free-form text with structured points using Golang.
· Identified API delays in large-scale distributed systems and optimized them by parallelizing service calls with Goroutines.
· Decreased code redundancy by consolidating config reads and managing dependency injection.

Public Safety Lab, NYU   Oct 2019 - Feb 2020
Data Scientist, Jail Data Initiative   New York City, NY
· Created and maintained website and PDF scrapers, with Selenium, which extract inmate data from over 100 county rosters.
· Detected counties that are systematically jailing defendants pretrial or post-fine and inferred patterns in recidivism.

Samsung Research Institute   Jun 2017 - Jul 2019
Backend Engineer II, Web Services Team   Bangalore, India
· Implemented scalable REST APIs using Node.js and MongoDB to manage and deliver content to 4 million daily active users.
· Integrated Kinesis into the architecture to link different microservices, increasing fault tolerance and scalability.
· Reduced API latency by 40% by enabling distributed in-memory read-through caching using Apache Ignite.
· Improved the trending algorithm's space efficiency by 18% by migrating to batch-wise fetching from MongoDB.
· Revamped the recommendation system utilizing profile approximation, clustering, and collaborative filtering.
· Analyzed user data leveraging Apache Spark and collaborated with the product team to improve user experience.

Samsung Research Institute   May 2016 - Aug 2016
Software Engineering Intern, Data Intelligence team   Bangalore, India
· Designed a solution that performs churn analysis on SPay's user data and visualizes potential feature improvements.
· Determined key factors that affect the success of an application in different countries using a Random Forest model.

PROJECTS

Building an Operating System from Scratch
· Handled BIOS interrupts and used low-level C to construct system calls that display, read, and execute commands.
· Developed a file system that supported directories and file operations such as creation, modification, and deletion.
· Introduced multiprocessing by utilizing memory segmentation and preemptive round-robin scheduling.

Youtube Views Predictor
· Programmed a script to periodically fetch data from Youtube, Spotify, and Twitter and combine it using fuzzy matching.
· Experimented with feature extraction, scaling, and selection to combat imbalanced data and skewed values.
· Trained a model to quantify the impact of arbitrary social media trends on the popularity of a song.

EDUCATION

Courant Institute of Mathematical Sciences, New York University   Sep 2019 - May 2021
Master of Science in Information Systems, CGPA: 3.95/4
Courses: Data Science, Operating Systems, Natural Language Processing, Distributed Systems
Roles: Teaching Assistant for Algorithms

National Institute of Technology, Karnataka   Jul 2013 - May 2017
Bachelor of Technology in Computer Science, CGPA: 8/10
Courses: Cloud Computing, Artificial Intelligence, Data Mining, Database Systems, Networks
Roles: Vice President of Institution of Engineers, President of Inauguration Committee

TECHNICAL STRENGTHS

Languages:	Node.js, Golang, Python, C++, Javascript, SQL, NoSQL (MongoDB, Redis)
Technologies:	Git, ElasticSearch, Selenium, Apache Spark, Apache Ignite, AWS (Kinesis, EMR, Lambda, S3)
Paradigms:	API design, Agile methodologies, System architecture