Vidit Bhargava

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EXPERIENCE

Uber San Francisco, CA
Backend Engineering Intern *May 2020 – Aug 2020*

- 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 by parallelizing service calls with Goroutines.
- Decreased code redundancy by consolidating config reads and managing dependency injection.

Public Safety Lab New York City, NY
Data Scientist *Oct 2019 – Feb 2020*

- Created and maintained website and PDF scrapers, with Selenium, which extract inmate data from over 100 rosters.
- Detected counties that are systematically jailing defendants pretrial or post-fine and inferred patterns in recidivism.

Samsung Research Institute Bangalore, India
Backend Engineer *Jun 2017 – Jul 2019*

- Implemented scalable REST APIs using Node.js and MongoDB to manage and deliver content to 4M 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 Bangalore, India
Software Engineering Intern *May 2016 – Aug 2016*

- 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 from YouTube, Spotify, and Twitter and combine 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

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

National Institute of Technology, Karnataka
Bachelor of Technology in Computer Science, CGPA: 8/10 *Jul 2013 – May 2017*
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, Java, SQL, NoSQL (MongoDB, Redis)
- **Technologies:** Git, Elasticsearch, Selenium, Apache Spark, Apache Ignite, AWS (Kinesis, EMR, Lambda, S3)
- **Paradigms:** API Design, Agile Methodologies, System Architecture, Software Development Lifecycle