

# Shubham Kumar

<https://github.com/shubhamkumar0> | +16802162821 | [shubham.kumar099@gmail.com](mailto:shubham.kumar099@gmail.com) | <https://www.linkedin.com/in/shubham-kumar0/>

## EDUCATION

### Syracuse University

Master of Science - Applied Data Science | GPA-3.97/4

- Computer Architecture, Big Data Analytics, Applied Machine learning, Business Analytics, Text Mining, Data Warehouse

Syracuse, NY

May 2022

### IIT - Department of Humanities & Social Sciences

Master of Science + Bachelor of Science in Economics

- Programming, Data Structures, Algorithms, Databases and Management Systems, Graph theory, Probability and Statistics, Calculus

Kharagpur, WB

May 2019

## EXPERIENCE

### Amazon

Software Development Engineer

- Working in the Shortlister team, dealing with routing name free Alexa traffic to their effective respondent Skills
- Improving customer experience by correctly routing avg. 390k/week faulty requests, via an A/B experiment
- Rallying the momentum of latency reduction projects along with other by on-time development and service capacity changes
- Improving team system resiliency by creating and executing load tests

Languages used: Java

June 2022 - Present

### Delhivery

Developer

- Enhanced logging and error catching infrastructures, lowering debug time by 15 hours per week of team, operating Python
- Modified facility re-organization along with 1 developer utilizing Python, ElasticSearch, AWS, and DynamoDB
- Mechanized layout modifications, saving operations team 20 hrs per week, leveraging python
- Decreased JVM memory pressure by 8% in multiple python backend services

Languages used: Python

July 2020 - January 2021

### Capillary Technologies

Software Development Engineer

- Spearheaded migration from RESTful APIs to GraphQL of multiple business processes
- Concurred with a team of 7+ people for polishing user experience, employing C#, JavaScript, Java(Spring)
- Reduced cost \$450+/month through in-house reporting service along with a senior developer, operating Java
- Spearheaded migration from RESTful APIs to GraphQL of multiple business processes

Languages used: Java, C#

June 2019 - June 2020

## TECHNICAL SKILLS

- Programming Languages: C++ | Python | C# | Java
- Data stores & Indexers: Spark | SQL | MongoDB | DynamoDb | ElasticSearch | Redis
- Software: Salesforce | Microsoft Office | Jupyter | Kibana | Microsoft- IIS | R-studio | PowerBI
- Frameworks: Spring | .NET | Flask | Kafka | Kinesis | SQS/SNS | Airflow
- Cloud Systems: AWS EC2 | AWS Lambda | S3 | RDS
- Libraries: scikit-learn | Nltk | Scipy | Pandas | Matplotlib | Numpy | Spacy | Selenium | BeautifulSoup
- Operating Systems: Linux | Windows | MacOS
- Version Control: Git
- API Tools: GraphQL | Postman | Swagger

## PROJECTS

### CENTRO - Data Analysis

Graduate Researcher

- Led the Data Analysis of Centro Bus data to study impact of COVID-19 on bus ridership, with Prof. Carlos Enrique Caicedo Bastidas
- Executed Data Cleaning, Exploration and statistical analysis on 30 million+ dataset applying Jupiter Notebooks, SQL and Pandas
- Identified 80% of statistically different ridership by performing Hypothesis testing

Languages Used: Python

April 2021 - October 2021

### Google Summer Of Code

Developer

- Improved latency for visualizations by 23% collaborating with researchers at Leipzig University
- Enhanced system design by implementing new methods of graphics rendering such as Instancing
- Optimized process latency by 47% revamping existing nested MySQL queries

Languages Used: JavaScript

June 2019 - August 2019

### Book cataloging web application

Self Project - Developer

- Created a Microservice architecture application for inventory keeping of books, operating GWT, spring boot and HTML+CSS
- Implemented user account creation functionality with MySQL database and authorization utilizing cookies
- Improved UX by integrating with Google books API to search books add to user's library and provide ratings and review

Languages Used: Java

March 2019 - May 2019