

Bhanu Gupta

✉ bhanuvkgupta@gmail.com ☎ +1-347-817-8920 📍 New York
🌐 <https://linkedin.com/in/bvg/> 🔗 <https://bhngupta.github.io/home/>

EDUCATION

New York University

Master of Science (MS) in Computer Engineering

Courses: Data Structures and Algorithms, Artificial Intelligence, Network Security

Sep 2022 – May 2024

GPA: 3.7/4.0

SRM Institute of Science and Technology

Bachelor of Technology (B.Tech) in Computer Science and Engineering

Courses: Database Design, Python Programming, Distributed Systems

Aug 2018 – May 2022

GPA: 8.74/10.0

EXPERIENCE

• Flipped.ai

Oct 2020 - Jun 2022

Software Engineer Intern (Full Time)

- Developed the core web application using **React.js**, **Python Django** and MySQL DB, and seamlessly integrated into Jenkins based CI/CD pipelines. Deployed on AWS - EC2
- Increased search performance by 3x** by developing REST APIs for storing history and implementing query-level boosting techniques to deliver personalized results
- Improved application resilience by isolating notifications into a dedicated microservice using **Apache Kafka** for messaging and **Redis** for caching
- Reduced build time by 30% through Docker and Kubernetes containerization and **Terraform** for infrastructure setup
- Developed AWS Lambda functions for automated PDF data extraction, streamlining AI-driven file processing workflows.

• Make A Difference

Jun 2021 - Dec 2021

Software Engineer Intern

- Designed MongoDB schema and implemented an application leveraging **React.js**, **Java Spring Boot** and DynamoDB, reducing developer workload by 70%
- Collaborated with the API team to drive modernization initiatives, migrated Java Spring Boot APIs from REST architecture to GraphQL
- Deployed comprehensive automated testing suites utilizing Jest and Selenium, resulting in 92% code coverage

SKILLS SUMMARY

- Languages/Database:** Java, Python, C++, Go, Javascript, MySQL, PostgreSQL, MongoDB, Redis
- Frameworks/Libraries:** React, Angular, SpringBoot, Django, Flask, Jest, Selenium, Cypress, JUnit
- Technologies:** AWS, GCP, Azure, REST APIs, GraphQL, Terraform, Docker, Kubernetes, Apache Spark, Apache Kafka, Git, Github, GitLab, Jenkins, Agile

PROJECTS

• Streamify | Python, Apache Kafka, Flask | [Code](#)

- Created a scalable and fault tolerant distributed video streaming platform which ensuring seamless delivery of video content without any data loss

• Zippy | C++, gRPC, Multithreading | [Code](#)

- Architected a scalable high-performance, gRPC based, in-memory data store in C++, optimized for high speed and low latency, achieving a 40% reduction in response times
- Integrated data durability features including snapshots and TTL-based data expiration, enhancing data recovery capabilities and reducing data loss by 99%

• CollabDoc | Go, React, WebSockets, Multithreading | [Code](#)

- Built a cutting-edge real-time collaboration platform in Go and TypeScript, integrating Operational Transformation for conflict resolution and multi-user editing, reducing data conflicts by 100%
- Designed JSON-based persistence and WebSocket broadcasting to enhance collaborative document editing with low-latency updates in a scalable environment

More projects can be found on [Portfolio](#)

LEADERSHIP AND ACHIEVEMENTS

- Teaching Assistant: Guided 50+ students through operating systems concepts in a graduate-level Operating Systems course
- Google HashCode 2022: secured Global Rank 552 (among 10,000+ teams) and School Rank 1
- Awarded merit based scholarship of \$10K from NYU Tandon School of Engineering