

Rishabh Gupta

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EDUCATION

Northeastern University

Boston, MA

MS in Computer Science, **GPA: 3.7/4.0**

Sep 2022 - May 2025

Coursework Machine Learning, Cloud Computing (AWS), Computer Networks, Operating Systems, Object Oriented Programming, Algorithms, Database Management Systems

Activities Graduate Teaching Assistant - Discrete Mathematics

VIT University

Vellore, India

B.Tech in Mechanical Engineering

Jul 2014 - May 2018

TECHNICAL SKILLS

Languages	Java, J2EE, Python, C, C++, JavaScript, SQL, HTML, CSS
Frameworks	Django, Spring Boot, React, Android SDK, Bootstrap5, Hibernate, JUnit, Selenium, pytest
Developer Tools	Git, Docker, AWS, Oracle Cloud Platform, Kubernetes, Linux, Shell, Jenkins
Databases	MySQL, Oracle, MongoDB

WORK EXPERIENCE

Addgene

Watertown, MA

Software Engineering Co-op

Jan 2024 - Aug 2024

- Enhanced 10+ features for an e-commerce site and a Lab Inventory Management System using **Python**, **Django**, and **Bootstrap 5** in an Agile development environment
- Boosted efficiency for content management teams by 20% by engineering an email template processing engine
- Improved code coverage to over 80% by developing API and UI tests with **unittest**, **Jasmine**, and **Selenium**

Oracle Financial Services Software

Mumbai, India

Software Engineer 2 | Staff Consultant

Jul 2021 - Apr 2022

- Enhanced performance in a real-time production system for processing **120+ million** financial records by 10% through Query Optimisation, Thread Dump Analysis, and Code Profiling
- Managed banking requests for **50 million** users by building APIs for interoperability between **Java** and **C++** systems
- Streamlined payment disbursements by developing automated batch operations, reducing processing time by 40%
- Reduced deployment time by 20% through transforming monolith to microservices using **Spring Boot** and **Docker**
- Developed mission-critical payment routing system for merging banks, serving over 150 million customers
- Recognized with the **Rising Star Award** for outstanding contributions to system interoperability, performance enhancements, and leading critical banking system integrations

Software Engineer 1 | Associate Consultant

Sep 2018 - Jul 2021

- Engineered a high-throughput payment processor handling **80+ transactions/second** using ISO8583 protocol
- Implemented payment **REST APIs** for banks and third parties, leveraging **Hibernate** ORM for database interactions
- Contributed to all phases of project delivery including planning, requirement gathering, system analysis, integration, testing, performance tuning, implementation, deployment, and support

PROJECTS

Board Game Marketplace | Python, MySQL, Django, HTML, CSS, JavaScript

- Built a game marketplace with UIs for customer registration, item catalog, purchase cart, and analytics dashboard
- Created **SQL** procedures, functions, and triggers to manage inventories, calculate user statistics, and analyze sales

ShellX | C, C++, Linux, Perl

- Developed a custom Linux shell, implementing features such as command parsing, execution, input/output redirection, piping, background process management, and signal handling

Concurrent KV Store | C, C++, Multithreading

- Architected a high-performance concurrent key-value store server in C, implementing CRUD operations using POSIX threads, mutexes, and conditional variables for synchronization