

Rishabh Ganesh

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EDUCATION

Columbia University

New York, NY

BS in Computer Science (GPA: 3.3)

2024

- Coursework: Advanced Programming, Natural Language Processing, Artificial Intelligence, Applied Data Science, Computer Networks, Introduction to Databases, Functional Programming, UI Design, Deep Learning
- Organizations: Orientation, Road Runners, EcoReps

Fordham University

New York, NY

BS in Applied Mathematics (GPA: 3.8)

2022

- Coursework: Java Programming, Data Structures, Algorithms, Numerical Methods, Abstract Algebra
- Organizations: Orientation, Intramural Basketball

SKILLS

Programming Languages: Python, Java, C++, C, R, Haskell, Swift

Web Technologies: JavaScript, HTML, CSS

Databases: Postgres, SQL Server, BigQuery

Tools: Git, Shell, Jenkins, Microsoft Azure DevOps, Power BI, GCP, OpenShift, Kubernetes, Visual Studio, PyCharm

WORK EXPERIENCE

United Parcel Service

Parsippany, NJ

Data Engineering Intern/Co-op

June 2023 – Present

- Developed a Flask application using Python with optimized API call methods to streamline the data delivery pipeline.
- Implemented algorithms and data compression techniques to handle the transfer of large objects between API endpoints.
- Built and deployed project to development and production using Jenkins for CI/CD.
- Collaborated with data engineers to integrate middle API with data pipeline.
- Built Power BI dashboards to visualize data gaps in BigQuery tables.

Proskauer Rose LLP

New York, NY

Applications Intern

July 2022 – August 2022

- Migrated 149 active Microsoft Power BI report subscriptions from an old web server to a new server after verifying associated SQL queries.
- Isolated and addressed subscriptions causing errors in Power BI report servers.
- Utilized SQL queries to extract relevant data from data-driven subscriptions.

Fordham University

Bronx, NY

Java Programming Teaching Assistant

January 2022 – May 2022

- Supported teaching of the Java Programming course during live sessions and lectures.
- Conducted tutoring sessions and debugging sessions, and managed grading and office hours during the semester.

PROJECTS

2048 Solver AI

Artificial Intelligence

November 2023

- Implemented a Python script that can play the 2048 game at high speeds
- Utilized the heuristic search algorithm and designed heuristics to optimize AI performance
- Tuned the heuristic weights so the AI can achieve at least 512 on any board

TCP Implementation using UDP

Computer Networks

April 2023

- Implemented the TCP networking protocol in Python using socket programming, dgrams, and the 3-way handshake model.
- Manipulated packets at the byte level for TCP headers using Python's byte type.
- Developed error handling to ensure accurate transmission in spite of missed and delayed packets.

mdb-lookup-server

Advanced Programming

December 2022

- Developed a robust HTTP web server written primarily in C that dynamically generates HTML web pages.
- Connects the web to a client C program that serves search results from a messaging database (mdb).