

Farhan Mohammad

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EDUCATION

Fordham University

Bachelor of Science in Computer Science

New York, NY

August 2021 - May 2025

- **Cumulative GPA:** 3.946 | **Major GPA:** 4.0
- **Honors:** Summa Cum Laude, Dean's List, Phi Kappa Phi Honor Society Member

WORK EXPERIENCE

Stride, Inc.

Herndon, VA

Data Analyst

May 2024 - September 2024

- Automated SQL data extraction and Python-based cleaning for datasets exceeding 1M rows, ensuring 99.9% accuracy in financial and operational reports.
- Generated 25+ actionable reports (Tableau/Power BI) for stakeholders, reducing data retrieval time by 40% and supporting data-driven decision-making.
- Collaborated with accounting and operations teams to analyze KPIs, improving operational efficiency by 15% through visualized insights.
- Led a team of 3 analysts to streamline reporting workflows, reducing turnaround time for stakeholder requests by 30%.

Collabera

Jersey City, NJ

Cybersecurity Support Analyst

March 2023 - September 2023

- Provided technical support and tracked issue resolution using JIRA, escalating complex tickets to senior teams and improving response time by 25%.
- Conducted vulnerability scans and collaborated with security teams to mitigate risks, enhancing system security.
- Assisted in software testing, leading to a 15% reduction in reported bugs, and developed documentation for new features, improving team efficiency.
- Facilitated cross-departmental collaboration to ensure network availability and troubleshoot firewall-related issues.

PROJECTS

Dynamic Schedule Generator

August 2024 - Present

- Designed a Python-based scheduling program using Tkinter for a GUI to generate optimal schedules based on user-defined constraints.
- Integrated AI through Reinforcement Learning (RL) to adapt scheduling suggestions based on real-time feedback, improving user satisfaction over time.
- Leveraged backtracking algorithms to handle complex requirements, including overlapping time slots and prioritization preferences, reducing scheduling conflicts by 80%.
- Optimized the system using NumPy, achieving sub-second schedule generation for datasets of up to 500 constraints.

Relational Properties Checker

August 2023 - September 2023

- Designed an interactive web tool used by 30+ students to analyze and validate 10+ mathematical properties of relations.
- Reduced manual validation time by 70% through dynamic matrix processing and visual feedback.
- Ensured cross-browser compatibility and responsive design, improving accessibility across devices.

API News Explorer

December 2023 - December 2023

- Built a responsive web app integrating with RESTful APIs and OAuth2, simulating secure authentication workflows and enabling search across 5+ platforms.
- Enabled users to input and test up to 3 configurable fields (API key, endpoint, search terms), returning real-time results with sub-1s latency.
- Decreased redundant API calls by 40% through efficient query handling and result caching logic.

SKILLS

- **Programming:** Python, C#, C++, Java, JavaScript, SQL, Node.js, React.js, HTML/CSS, MATLAB.
- **Tools:** Git, Wireshark, Splunk, Nessus, Qualys, Burp Suite, Linux, Oracle DB, MongoDB, Pandas, NumPy, PyCharm, Salesforce.