Daniel Furmanov

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🏴 Brooklyn, NY | 🔤 Fluent in English and Intermediate in Russian

Education

Baruch College — Aug 2025 – May 2027
Bachelor's in Computer Science: Financial Mathematics — *New York, NY*

Borough of Manhattan Community College — Aug 2022 – May 2025
Associate's in Computer Science — *New York, NY*

Experience

Software Developer/Project Manager Intern — May 2025 – Jul 2025
Grasshopper Air Mobility — *Barcelona, Spain*

- Developed initial techstack of drone logistics tracking and orders.
- Implemented containerization of application through open source tools like Podman using a virtual machine to avoid unnecessary expenses.

Undergraduate Physics Research Assistant — Mar 2024 – May 2024
Borough of Manhattan Community College — *New York, NY*

- Operated Z3 Tensile Machine using GripSoft ZPM software, optimizing data recording processes.
- Created a custom manual simplifying machine operation for current and future assistants.
- Recorded and documented experimental results to be exported to Excel, enhancing data accuracy and research efficiency.

Product Management Intern — Jul 2023 – Aug 2023
Unadat — *Remote, NY*

- Developed customer-centric project plans, conducting market research to improve product outcomes.
- Utilized Asana's Sprint Planning features to define and track Sprint Goals, successfully delivering 12 potentially shippable products over 1 month.
- Lead Sprint Planning and Sprint Reviews for 5 cross-functional sub-teams, utilizing Asana's timeline and board views to visualize sprint goals and track progress against the Definition of Done (DoD).
- Click to see: Supervisor Assessment/Evaluation Report.

Projects

Mentorship Continuation Project | *js, css, html, react, Vercel* — Dec 2024 – Jan 2025

- Encouraged and promoted the continuation of the AI Innovation Challenge project from members who were involved during the challenge and recruited outside members to join under the direct mentorship of Dr.Azhar.
- Gathering all BMCC CS requirement courses, and prerequisites for each course to be formatted in json structure.
- Developed and hosted website using Vercel BMCC Guide.

BMCC AI Innovation Challenge | *Python, Git, Tailscale, Streamlit, Requests, REST* — Nov 2024 – Nov 2024

- Click to see: Secured 3rd place in the General AI Track, the most competitive track, for demonstrating innovation in academic advisory solutions.
- Developed an AI-driven chatbot integrating DegreeWorks simulated data to provide personalized academic advising, progress tracking, and course planning for Computer Science students.
- Implemented a web scraper using Selenium to automate the retrieval of student data and degree progress information.
- Used Replete as a local LLM and REST APIs to enhance chatbot capabilities, improving accessibility to academic and wellness resources.

Course Database: Bank Loan Customers | *SQL, Access, Database Modeling, Excel* — Jun 2024 – Jul 2024

- Architected a banking database system using ER modeling and UML notation, normalized to BCNF across 6 core tables.
- Implemented complex SQL queries for data manipulation, including multi-table JOINs and subqueries for comprehensive reports.
- Developed a normalized Microsoft Access application with parameterized queries and custom VBA functions.
- Created an intuitive UI using Access forms with embedded macros and event procedures for real-time financial analytics.
- Produced a normalized Access/SQL database from Excel import to automate customer accounts and transactions, enhancing data integrity, security, and ability to add new data.

Technical Skills

Languages: SQL, Python, C++, Golang, JavaScript, CSS, HTML
Frameworks: JetSQL, Streamlit, ReactJS
Developer Tools: Git, Bitbucket, Visual Studio Code, Tailscale, REST, Verce, Podman, VIMl
Libraries: Requests