

Dennis Boguslavskiy

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EDUCATION

New Jersey Institute of Technology

Newark, NJ

B.S. in Computing and Business

Dean's List: Fall 2022, Spring 2023, Fall 2024

Relevant Coursework: Business Data Analytics, Database System Design and Management, Intensive Programming in Linux, Principles of Operating Systems, Intro to Comp Sci I and II, Fundamentals of Corporate Finance

WORK EXPERIENCE

Depository Trust and Clearing Corporation

Jersey City, NJ

Software Developer College Hire Program/Intern

May 2025 - Present

- Developed responsive user interfaces for internal automation software using Angular, enhancing usability and optimizing application performance
- Leveraged internal automation platform to implement endpoint-based tracking across internal applications, enhancing reporting and improving visibility into program status.
- Designed and implemented RESTful APIs using Spring Boot, ensuring seamless communication between frontend and backend services.
- Utilized BitBucket for version control to effectively manage code changes and collaborate with development teams.

Merola Tile Distributors of America.

Manalapan, NJ

Information Technology Intern

June 2024 - January 2025

- Analyzed and tracked quarterly KPIs utilizing advanced Excel functions providing clear insight into performance trends
- Developed a Quality Control PO Web Application with Python, Flask, Linux, and JS, reducing manual workloads and boosting efficiency
- Assisted with day to day IT support operations troubleshooting and resolving hardware and software issues
- Implemented an IT asset management solution for 500+ inventory items, leveraging Linux, Apache2, and MySQL
- Oversaw project research and deployment coordinating strategies and timelines to achieve on-time deliverables

Premier Medical Lab

Edison, NJ

Python Developer Intern

September 2023 – November 2023

- Developed a Python GUI application leveraging Tkinter/PyQt5, enabling database queries from MySQL and Excel Exports
- Streamlined user workflows by designing intuitive interfaces and integrating exception handling
- Optimized data pipelines with modular code, resulting in maintainable and high-performing applications
- Integrated security measures to protect database queries and prevent unauthorized access

PROJECTS

Cooling Urban Heat Islands ML Project

January 2025 - March 2025

- Developed and trained a predictive machine learning model using Python, pandas, and scikit-learn to identify high-risk urban heat island zones in New York City.
- Incorporated geospatial libraries (e.g., GeoPandas) to process location-based data and visualize temperature patterns across different neighborhoods.
- Collaborated with a partner as part of the 2025 EY Data Science Challenge, leveraging data cleaning, feature engineering, and hyperparameter tuning techniques to optimize model accuracy and scalability.

Bank System Design at NJIT

September 2024 - December 2024

- Designed a relational database system using MySQL and SQL to manage banking operations, including branches, customers, employees, accounts, loans, and transactions
- Implemented advanced SQL queries with multi-table joins and subqueries, enhancing data retrieval, reporting, and transaction processing
- Developed an ER model and relational schema, defining relationships, constraints, and normalization for efficient and accurate data management.

Diet App Web App

November 2024 - December 2024

- Developed a live, end-to-end secure diet app, with user authentication using Flask, OpenAI API, Bootstrap, SQL, and JavaScript, providing personalized macro calculations and meal planning
- Integrated AI-driven meal plan generation, allowing users to receive customized nutrition plans based on fitness goals

Consignment Management Platform

June 2024 - September 2024

- Developed a live full-stack consignment management platform using Next.js, Tailwind CSS, Firebase DB, and Firebase Auth
- Implemented secure authentication and role based access control via Firebase Auth, ensuring seamless user and admin logins
- Built a feature rich admin dashboard for inventory management, payment processing, real-time updates, data export, and analytics tracking

TECHNICAL SKILLS

Languages: English, Russian

Skills: Python, Linux, SQL, MySQL, NoSQL Database, Java, Firebase DB, Data Analytics, Excel, Web Applications, VMs, Databases, Git, Bash, Frameworks, APIs, Spring, Angular