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 Oper Systems, Intro to Comp Sci I and II, Fundamentals of Corporate Finance

WORK EXPERIENCE

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
- Oversay 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

Merola Tile Distributors of America.   **Manalapan, NJ**
Information Technology Intern   July 2023 - August 2023
- Performed daily cycle count analysis using Excel and WMS to identify inventory discrepancies and trends
- Compiled data-driven reports on cycle counts, presenting findings and optimization recommendations
- Implemented data validation protocols to ensure consistency between physical counts and digital records
- Generated detailed reports on cycle count data, highlighting key insights and improvement opportunities
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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   December 2024
- Designed a relational database system using MySQL and SQL to manage banking operations, including branches, customers, employees, accounts, loas, and transactions
- Implemented advanced SQL queries with multi-table joins and subqueries, enhancing data retrieval, reporting, and translation processing
- Developed an ER model and relational schema, defining relationships, constraints, and normalization for efficient and accurate data management.

Bank System Design at NJIT   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 for ByRaph   September 2024.
- Developed a live full-stack consignment management platform using Next.js, Tailwind CSS, Firebase DB, and Firebase Auth, that currently manages 5+ consignment clients
- 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, Firebase DB, Data Analytics, Excel, Web Applications, VMs, Databases, Git, Java, Bash, Frameworks, APIs