Anthony Dvorsky

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Education

New Jersey Institute of Technology — Sept. 2021 – May 2026
Master of Science Computer Science, GPA: 3.89/4.0 — *Newark, NJ*

Experience

Software Engineer Intern — May. 2024 – August. 2024
Redhawk Research LLC — *Remote*
- Revamped the Cypress testing system using JavaScript for Redhawk's loan processing web application, Jonah Direct.
- Implemented email verification testing through Cypress using the Gmail-tester plugin with Google Cloud Platform.
- Investigated the React Flow library to enhance the building of Real Estate Owned (REO) workflows in Jonah Direct.
- Built a full-stack project using Next.js, GraphQL, Apollo, Prisma, and Dagster to showcase React Flow's capabilities.
- Demonstrated the feasibility of implementing Dagster for running data pipelines through React Flow using the Dagster GraphQL API.

Introduction To Computer Science I Course Assistant — Sept. 2022 – Jan. 2023
New Jersey Institute of Technology — *Newark, NJ*
- Aided 20 hours weekly in a course focused on introducing programming and problem-solving techniques using Java.
- Minimized professor workload by grading exams, homework, and assisting in lectures.
- Guided two weekly lab sessions for a section of 40 students using Java to enhance learning with in-class exercises.

Intern — June 2022 – Aug. 2022
Packaging Efficiency Solutions — *Denville, NJ*
- Increased workplace efficiency by creating a part testing scheduler using Visual Basic for Applications in Excel.
- Assisted in creating and managing Excel workbooks for data entry based on inventory data from Sage 100.

Projects

Training Log App | https://training-log-tawny.vercel.app/
- Developed a full-stack training app that tracks users running data and visualizes it with Recharts, a React chart library.
- I used React, NextUI, and Tailwind to build the frontend, and Next.js, GraphQL, and Prisma with PostgreSQL for the backend.
- Implemented NextAuth.js for user authentication and hosted my project on Vercel.

Shop Project | https://github.com/tony2-5/ShopProject-IT202
- Developed a full-stack shop website using PHP for backend and HTML/CSS for frontend. This project is hosted using Heroku.
- Built a SQL database to save user data and dynamically generated the website by querying this data using PHP.

Predicting Taxi Tips | https://github.com/tony2-5/PredictingTaxiTips
- Machine Learning project predicting tips for taxi rides using a data set from NYC Open Data Portal and a Linear Regression Model.
- Cleaned and visualized data set using Pandas, NumPy, Seaborn, and Matplotlib.
- Used Scikit-learn to split and encode the data and to train and evaluate the model.

Technical Skills

Languages: Java, Python, C, PostgreSQL, JavaScript, HTML/CSS, PHP, GraphQL
Developer Tools: Git, VS Code, PyCharm, IntelliJ, Eclipse, Heroku, Vercel
Libraries: React, React Flow, NextUI, Recharts, Prisma, Dagster, d3, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn
Frameworks: NextJS, Cypress Testing, Tailwind

Extracurricular

NJIT Divison 1 Cross Country/Track and Field
- Three-season student-athlete competing in the Fall, Winter, and Spring seasons.
- Named to 2023 America East Conference Cross Country All-Academic Team.
- Team captain and one of two representatives, communicating the team's needs with NJIT's athletics administration.