


# MICHAEL DEHAAN

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## EDUCATION

### University of North Carolina Greensboro

Expected May 2025

Bachelor of Science in Computer Science

## EXPERIENCE

### IT Specialist

September 2023 – Present

Carolina Coffee Roasting Company

- Implemented commercial digital solutions to automate routine processes such as scheduling and team communication, enhancing efficiency and reducing manual workload
- Served as the primary IT point of contact, resolving technical issues, maintaining systems, and ensuring smooth daily operations, reducing team workload and minimizing downtime
- Developed a system for new hire training and documentation tracking, reducing onboarding time by 30%

### Computer Science Tutor

January 2023 – May 2023

University of North Carolina Greensboro

- Guided students through challenging topics including Data Structures, Algorithms, Discrete Mathematics, and System Programming, simplifying complex concepts to enhance understanding and academic success
- Developed personalized study plans and strategies tailored to individual learning needs, improving student performance and confidence in exams

## PROJECTS

### Data-Driven Habit Analysis | Django, PostgreSQL, React

- Led a team of three in developing our senior capstone project: a full-stack habit-tracking application that analyzes user behavior, generates a correlation matrix of habit patterns, and applies machine learning for predictive insights
- Developed a RESTful API using Django Rest Framework (DRF) to handle all application operations, implementing JWT authentication for secure user access and data protection
- Implemented unit and integration testing to ensure API reliability and data integrity, enhancing system robustness

### Sales Analysis Dashboard | Bootstrap, Dash, HTML/CSS, Python, Sklearn

- Applied Machine Learning techniques to model and visualize sales trends, increasing forecasting accuracy
- Created dynamic visualization tools to analyze top-selling items, delivering actionable insights into sales performance

### Inventory Management System | Bootstrap, MySQL, Spring Boot

- Developed a full stack application with Spring Boot, Thymeleaf, and MySQL
- Developed an interactive dashboard with real-time stock monitoring, offering insights into inventory levels and trends
- Implemented low-stock and out-of-stock tracking features with custom database queries, enhancing inventory accuracy and enabling proactive restocking

### Portfolio Website | Bootstrap, GitHub Pages, HTML/CSS, JavaScript

- Built and launched a responsive personal portfolio to showcase key projects and technical skills, enhancing professional visibility and online presence
- Implemented continuous deployment with GitHub Pages, maintaining version control and minimizing update downtime

## SKILLS

**Languages:** HTML/CSS, Java, JavaScript, Python, SQL

**Frameworks:** Dash, Django, Spring Boot

**Libraries:** Matplotlib, NumPy, Pandas, React, Sklearn

**Databases:** MySQL, PostgreSQL, SQLite

**Developer Tools:** Git, GitHub, Jupyter Notebook, Postman,