

Matthew Ham

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EDUCATION

Binghamton University, SUNY, Thomas J. Watson College of Engineering and Applied Science

Bachelor of Science in Computer Science

Expected May 2027

GPA: 3.61/4.00

PROJECT EXPERIENCE

Pantry Tracker App, Frontend Web Developer / Independent Project

July 2024 - Present

- Engineered a responsive pantry tracking application using Next.js and Material UI, enabling users to seamlessly add and search for items through an intuitive text-based interface
- Integrated Firebase Firestore to ensure efficient and secure real-time data management and retrieval

NYC Cheap Eats, Full Stack Developer / Independent Project

January 2024 - Present

- Designed a MERN stack application as a catalog of cheap restaurants in New York City searchable through name, borough, zip code, cuisine type, and more
- Curated a MongoDB database of restaurants with a custom schema for optimal data storage and retrieval and hosted the database on the cloud using MongoDB Atlas
- Hosted the site frontend and backend using the free tiers of Render and Vercel and deployed from GitHub

Karnaugh Map Generator, Desktop Developer / Independent Project

October 2023

- Developed a desktop application in Python to generate Karnaugh maps for Boolean expressions with 2 to 4 input variables
- Utilized the grid mapping abilities of Tkinter to provide a clear truth tables interactive UI

WORK EXPERIENCE

Binghamton University

Binghamton, NY

ResCon (Residential Computer Consultant)

August 2024 – Present

- Assisting students with various technical needs such as connecting to Wi-Fi, setting up 2FA with university user profiles, updating device drivers, and more
- Applying various IT troubleshooting strategies and communicate with a team of about 30 other consultants to help identify client problems

355 Code

New York City, NY

Summer Marketing Intern

May 2024 – July 2024

- Attended and hosted in-person events at elementary schools and high traffic areas promoting company products and collecting 12+ signups each hour
- Procured and managed transportation of equipment and hired language translators for successful in-person events

355 Code

New York City, NY

Summer Marketing Intern

June 2023 – August 2023

- Coordinated a team of 4 interns through the recruitment and hiring process by performing outreach, monitoring payroll, and facilitating tasks for interns
- Improved company growth by 250 users through encouraging new members to enroll and spreading awareness of the tutoring services provided using flyers
- Researched demographics of students at 50+ local elementary schools to gather and share projected target audience with the company Founder and prioritize sponsorships for specific school programs

LEADERSHIP & CAMPUS INVOLVEMENT

Hack BU

Binghamton, NY

Communications Organizer

November 2023 – Present

- Assisted in developing and executing content ideas for TikTok and draft messages for other social media platforms
- Engaged in promotional initiatives and logistics for a 2-day annual hackathon with over 200 participants ensuring seamless check-ins and fostering a safe, collaborative environment
- Actively participate in weekly technical skill and industry workshops to enhance expertise and strengthen foundational knowledge as a computer scientist

TECHNICAL SKILLS

Languages: Java, JavaScript, Python, C

Software: Visual Studio Code, Apache NetBeans, Vim, Github

Additional: HTML, CSS, MongoDB, React, Next.js, Firebase, MUI, Linux, Git