

# Daksh Mehta

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## EDUCATION

### SUNY Binghamton

*Bachelor of Science in Computer Science*

**Expected Graduation: May 2025**

*Cumulative GPA: 3.9/4.0*

**Relevant Courses:** Data Structures and Algorithms, Operating Systems, Programming Languages, Automata Theory

## TECHNICAL SKILLS

**Languages:** Java, C/C++, JavaScript, HTML/CSS, SQL, PHP, Python, Rust

**Tools:** Git, VS Code, Linux, Eclipse, Jupyter, Docker, Vim, REST API, Splunk

**Frameworks:** React.js, Node.js, Next.js, Tailwind CSS, Mocha.js, Chai.js, Sinon.js, Laravel, Jasmine.js, Matplotlib

## EXPERIENCE

### Developer/Programmer Analyst Intern

*Binghamton University*

**April 2023 – Present**

*Vestal, NY*

- Spearheaded campus-wide Wi-Fi data gathering tool using SplunkAPI and OracleDB to improve network insights
- Contributed 100+ unit tests using Mocha.js, Chai.js, and Sinon.js for increased code coverage and maintainability
- Developed 10+ micro-apps with API integration using a web-based IDE to streamline the University web portal

### Software Engineer Intern, Applications

*Alpine Proxies*

**January 2022 – August 2022**

*New York, NY*

- Implemented an authentication system with Python and Discord API, ensuring secure access for 5000+ users
- Automated a daily website monitoring system using Python and Beautiful Soup for alerts on performance changes
- Leveraged optimization techniques to enhance the moderation bot, reducing average response time by 12.5 seconds

## PROJECTS

### Portfolio Website

**Next.js, Tailwind CSS, Javascript, Git**

- Architected a responsive, mobile-friendly portfolio website with Next.js and Tailwind CSS
- Deployed and scaled portfolio globally on Vercel, ensuring fast performance and accessibility
- Advanced personal comprehension of modern web development design principles through hands-on experience

### Wi-Fi Data Gathering Project

**Laravel PHP, Splunk, SQL, OracleDB**

- Constructed a REST API which gathers real-time Wi-Fi connections and disconnections at Binghamton University
- Employed Splunk Search Processing Language to query thousands of log events and gather relevant data
- Processed network events from Splunk using Laravel PHP and inserted 100+ new records into an Oracle Database
- Collaborated with the University IT analytics team to uncover insights from over 10 million records

### Traveling Salesman Problem Analysis

**Python, Matplotlib, Git**

- Fabricated Greedy and Dynamic Programming implementations of the Traveling Salesman Problem in Python
- Visualized routes taken by each approach using Matplotlib and calculated time elapsed for easy comparison
- Demonstrated 43% faster execution time for Greedy algorithm compared to Dynamic Programming approach
- Analyzed accuracy and determined Dynamic Programming outperformed Greedy on 87% of the test cases

## LEADERSHIP/EXTRACURRICULARS

**Upsilon Pi Epsilon (VP):** Administer annual induction ceremony for 30+ students and preside over executive decisions

**ColorStack (Mentor):** Impart knowledge of career development in software to 3-4 underclassmen students

**VP of Student Success (Financial Coordinator):** Establish resources and outreach efforts to support mental, physical, and academic success for over 14,000 students

**Association for Computing Machinery:** Collaborate in coding challenges and expedite webinars on computing

**HackBU:** Partake in weekly discussions and workshops on mobile and web development