

BENJAMIN MCCABE

benmccabe19@gmail.com | (201) 675-5676 | linkedin.com/in/benmcca | github.com/benmcca
Ramsey, NJ 07446

Education

Albert Dorman Honors College, New Jersey Inst. of Technology

Expected Grad: May 2025

Bachelor of Science in Computer Science, **GPA:** 3.921/4.00, Dean's List

Relevant Courses: Data Structures & Algorithms, Object-Oriented Programming, Web Development, Data Science, Discrete Mathematics, Database Design & Management, Statistics, Calculus, Linear Algebra

Skills

Programming: JavaScript, ReactJS, Python, Java, C++, C, Bash, NodeJS, HTML, CSS, Google Apps Script

Data Analysis: Anaconda, Jupyter Notebooks, Splunk, MySQL

Hardware Development: Raspberry Pi, Arduino, 3D Printing, AutoCAD, Amateur Ham Radio

Professional Experience

Software Engineer Intern, Optum / UnitedHealth Group - Basking Ridge, NJ

June '23 - Aug. '23

- Designed and built a responsive internal job board website using React and CSS, implementing drag-and-drop, filters, and search bar functionality to improve user experience when applying to roles.
- Created static and dynamic data retrieval endpoints using NodeJS to connect the database to the front-end website allowing users to view and interact with the positions offered.
- Integrated SQL update queries along with update endpoints to ensure the database gets modified based on user interactions.

Developer Intern, Colgate-Palmolive - Piscataway, NJ

Sept '23 - Present, June '22 - May '23

- Developed multiple Google Chrome Extensions using Google Apps Script to automate data reporting and maintain synchronization of Test & Production databases on Splunk.
- Streamlined employee tasks and enhanced team efficiency by creating workflow tools and scripts to reduce manual tasks, resulting in improved ticket completion rates.
- Utilized the Stonebranch automation tool to schedule and manage IT processes held on SAP and Linux servers.

Software Engineer Intern, Becton Dickinson - Franklin Lakes, NJ

Sept. '20 - May '21

- Created a material science analysis desktop application that utilizes OpenCV image recognition to evaluate videos of different rubbers under increasing tensile stress.
- Applied statistic functions using the Pandas library to analyze the collected data, identifying strengths and weaknesses within each material to guide the development of medical syringes.

Computer Science Tutor, New Jersey Inst. of Technology - Newark, NJ

Jan. '22 - Present

- Facilitating weekly open lab sessions and conducting personalized one-on-one appointments with students focusing on introductory programming in Java, Python, C++, and JavaScript.

Projects

Bookstore Website (Full-Stack) | JavaScript, PHP, SQL, HTML, CSS

Dec '22

- Created a multi-page website that displays inventory data from a MySQL database.
- Used CSS to create a user interface that displays data with Flexbox and Grid.
- Designed and implemented a normalized database, including the creation of an enhanced entity-relationship diagram and schema for efficient data organization.

Dungeon Wizard | Python, Pygame

Aug '22

- Developed an arcade wave-based shooter game incorporating animations, sound effects, and an in-game player economy for purchasing upgrades.
- Programmed game elements, including projectiles, collisions, and particles, utilizing the Pygame framework.