BENJAMIN McCABE

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Education

Georgia Institute of Technology (OMSCS)   *2025 - Present*
Master of Science in Computer Science, Specialization in Artificial Intelligence
New Jersey Institute of Technology (Albert Dorman Honors College)   *2021 - 2025*
Bachelor of Science in Computer Science, **GPA:** 3.92/4.00, Dean's List

Professional Experience

Software Engineer, Optum / UnitedHealth Group - Boston, MA   *July 2025 - Present*
- Expanded backend functionality by creating and updating API endpoints to provide more data to users.
- Updated database and API to enable tracking of user modifications and link change tickets for accountability.
- Improved the web application with permission-based access, navigation warning banners, and bug fixes.
- Raised the team's security MBO score by remediating npm vulnerabilities and modernizing dependencies.

Software Engineer Intern, Colgate-Palmolive - Piscataway, NJ   *Sept. 2024 - May 2025*
- Enhanced product data quality and consistency by using JavaScript to sync attributes and digital assets in Stibo PIM, improving product listings across major online retailers.
- Implemented product archiving, reducing clutter and streamlining lifecycle management for thousands of SKUs.
- Improved customer access to nutrition facts by building a web UI to display product information online.

Software Engineer Intern, Optum / UnitedHealth Group - Boston, MA   *June 2024 - Aug. 2024*
- Migrated 60+ CI/CD pipelines from Jenkins to GitHub Actions, improving build reliability, enhancing monitoring, and eliminating legacy security dependencies.
- Achieved $400K in annual cost savings by decommissioning outdated tooling and infrastructure.

IT Developer Intern, Colgate-Palmolive - Piscataway, NJ   *Sept. 2023 - May 2024*
- Automated CSV file transfers from AWS S3 to Google Drive using AWS Lambda and developed a Google Apps Script to detect and convert incoming files to Google Sheets, eliminating manual data uploads.
- Collaborated with interns to build a server status dashboard with real-time Splunk data visualization, improving visibility into system uptime.
- Integrated a Python script with Splunk for automated Rapid7 API data retrieval and built interactive dashboards with dynamic filters and time pickers for faster issue diagnosis.

Leadership

Scrum Master, Optum / UnitedHealth Group - Boston, MA   *June '24 - Aug. '24*
- Led a team of interns by facilitating daily standup meetings, sprint retrospectives, and managing the Agile Board to delegate tasks and ensure timely project delivery.

Computer Science Tutor, New Jersey Inst. of Technology - Newark, NJ   *Jan. '22 - May '25*
- Conduct weekly lab sessions and one-on-one tutoring in Python, C++, Java, and JavaScript, improving students' programming proficiency and academic performance.

Projects

DigiFit (Mobile App) | youtube.com/watch?v=bpV8qwx5OAY | Kotlin, Google Firebase   *Dec. '24*
- Developed a social media platform in Kotlin for Android, enabling users to create a digital closet by uploading photographs of their clothing and posting outfit combinations of their digital clothing items.
- Integrated an AI Background Remover API for transparent backgrounds of clothing, enhancing outfit visualization.
- Implemented Google Firebase for user authentication and data storage, allowing users to view and manage their digital closets and outfit posts securely.

myRotations (Full-Stack) | myrotations.vercel.app | React, Express, Node, MongoDB   *May '24*
- Built a MERN stack social media platform integrating the iTunes API for music discovery, with user commenting and a fluid, interactive interface.
- Implemented features include a search bar with filtering options, user authentication for commenting, and the ability to edit or delete comments.

Skills

Languages: JavaScript, Python, Kotlin, Java, C/C++, SQL, PHP, Bash, MQL, SPL
Technologies: React, Node.js, Express, MongoDB, GitHub Actions, Jenkins, AWS Lambda, Google Apps Script, Splunk, Stibo PIM, GCP, Android Studio, Postman