

# Afia Bidica

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## EDUCATION

**Rochester Institute of Technology**, Bachelor of Science in Software Engineering,  
Minors in Business Administration and Human Resource Management

Expected August 2027 | Rochester, NY

- Presidential Merit Scholarship, Dean's List Fall 2023, Alfred L. & Ruby C. Davis Leadership Award

## PROFESSIONAL EXPERIENCE

**FactSet Research Systems, Inc.**, Software Engineering - Mesh Externship

May 2025 | Norwalk, CT

- Selected as 1 of 15 for a competitive externship focused on software engineering best practices, core products such as the FactSet Workstation, and fintech product development.
- Collaborated in a team to **design**, **develop**, and **deploy** an AI-powered chatbot using **Python**, **Streamlit**, and **OpenAI API**, delivering personalized workplace fashion advice within budget constraints.
- Practiced **Agile methodologies** and peer collaboration to deliver a functional solution under tight deadlines.

**Office of Student Engagement & Belonging**, Computer Science Tutor

Sep 2024 – Dec 2025 | Rochester, NY

- Coached 20+ students weekly in **Python**, **Java**, **C**, **C++**, and **Frontend** web development, resulting in over 90% *improvement* in assignment and exam performance.
- Provided guidance on object-oriented programming, data structures, algorithms, and unit testing, reinforcing software engineering fundamentals and quality assurance practices.

**Kode with Klossy**, Software Engineering Intern

Jul 2024 – Aug 2024 | New York, NY

- Led a team of 6 engineers through the full **software development lifecycle**, including wireframing, and implementation, using **Agile methodologies**, to deliver a responsive, mobile-friendly website in under 2 weeks, on time and within scope.
- Developed and deployed a web application with **HTML**, **CSS**, and **JavaScript** to educate businesses on cybersecurity's financial impact, reaching 90+ peer engineers.
- Analyzed large datasets (28,900+ *lines*) and created actionable data visualizations using **Python** (**Pandas**, **Matplotlib**, **NumPy**) and **Looker Studio**, enabling data-driven decision-making.

## PROJECTS

**Synop**, AI Article Summarizer Personal Project 

Jul 2025

- Developed a **full-stack** application using **React**, **Node.js**, and **Express.js** to summarize articles into a structured format.
- Integrated **Google Gemini API** to generate summaries, utilized **Axios** and **Cheerio** to fetch and parse web content from URLs.
- Designed the output to prioritize key topics and actionable takeaways, offering more efficiency to generic tools.
- Engineered a responsive, mobile-friendly user interface for on-the-go accessibility.

**TD Bank Expense Visualizer**, ReactJS Personal Finance Application 

Mar 2025

- Engineered a **React-based dashboard** to automate TD Bank transaction analysis, reducing manual tracking effort by 90%.
- Implemented **dynamic data visualizations** (**Recharts**) and **CSV parsing** (**PapaParse**) for instant, accurate financial insights.
- Designed a user-friendly interface and prioritized data privacy by avoiding database storage of sensitive information.
- Authored comprehensive **GitHub README** and code documentation to support users and developers.

**COMIX**, Java Comic Book Manager

Jan 2025 – May 2025

- Developed a comic book collection manager in **Java** using **Agile methodologies** and **Trello sprint backlogs** in a 5-person team.
- Implemented **Decorator pattern** for dynamic comic valuation and **Strategy pattern** for search and sort algorithms.
- Architected modular design using **Command pattern** for database operations, enhancing extensibility.

**Folder Cleanup**, File Organization GUI, Personal Project 

May 2024 – Jul 2024

- Developed a Python desktop application with **Tkinter** to automate file organization, reducing manual effort by 80%.
- Integrated unit testing (**pytest**) and performed integration testing between GUI and backend scripts(**os**, **shutil**), ensuring software quality and reliability.
- Packaged application (**PyInstaller**) for portability and implemented real-time logging for enhanced user experience.
- Maintained detailed technical documentation and user guides.

## LEADERSHIP

**Computing Organization for Multicultural Students**, Secretary

Dec 2023 – Present | Rochester, NY

- Automated membership data management and communications for 300+ members using **Excel**, **JavaScript** and **Google Apps Script**, increasing operational efficiency by 40% through proactive technical solutions.

**Microsoft**, Emerging Leaders for College Students Program

Jul 2025 – Sep 2025

- Selected from 1300+ applicants for a competitive development program focused on future leaders in technology

## SKILLS

**Programming Languages & Libraries:** Python, Java, JavaScript, C/C++, TypeScript, HTML/CSS, SQL, **Frameworks &**

**Libraries:** React.js, Angular, Express.js, Svelte, Streamlit, p5.js, Tkinter, Pygame, **Databases:** PostgreSQL, MongoDB, **Developer Tools:** GitHub, Git, Node.js, VS Code, LookerStudio, APIs, pgAdmin, STM32 Cube, **Certifications:** AWS Educate Machine Learning Fundamentals | IBM SkillsBuild: Data Fundamentals | IBM: Machine Learning with Python | IBM: Developing Front-End Apps with React | Microsoft Office Specialist Associate, **Achievements:** Codewars: Top **3.667%** out of 3 million worldwide site users 