

# Brian A. Bell

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## EDUCATION

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### Virginia Polytechnic Institute and State University (Virginia Tech)

08/2022 – 05/2023

*MS (Accelerated), Computer Science | GPA: 3.7*

*Blacksburg, VA*

- **Accomplishments:** New Horizon Graduate Scholar, IEEE Software Journal Submission, Dean's List
- **Positions:** Graduate Research Assistant, Graduate Teaching Assistant
- **Clubs:** AI & ML Club, 'Code World, No Blanket' Research Group, German Club Fraternity, Entrepreneurship Club

### Virginia Polytechnic Institute and State University (Virginia Tech)

08/2019 – 05/2022

*BS, Computer Science | GPA: 3.5*

*Blacksburg, VA*

- **Accomplishments:** UTC Aerospace Systems Scholars, Jerry H. Ballengee Scholarship, Dean's List
- **Positions:** Mathematics & Computer Science Tutor
- **Clubs:** AI & ML Club, CS Squared, German Club Fraternity, Entrepreneurship Club

## TECHNICAL SKILLS

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**Languages:** Java, Python, JavaScript, C

**Operating Systems:** Linux, Unix, Windows, Macintosh

**Tools & Other:** AWS, Agile, SAFe, Git, Visual Studio Code, IntelliJ, Eclipse, Bash

**Database:** SQLite, MongoDB

## PROFESSIONAL EXPERIENCE

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### Raytheon Intelligence & Space (NASA)

05/2022 – 08/2022

*Software Engineering Intern (Hybrid)*

*Greenbelt, MD*

- Aided NGAP team in crafting NASA-compliant cloud infrastructures using AWS (S3, EC2, Lambda, IAM, CloudWatch).
- Participated in agile processes, utilizing Atlassian tools (Jira, Bitbucket) for collaboration and project management.
- Assisted in migrating to cdktf, enhancing deployment processes by reducing complexity, simplifying maintenance, and making onboarding more intuitive through Python-based orchestration.

### Berkley Alternative Markets

05/2021 – 08/2021

*Software Engineering Intern (Remote)*

*Blacksburg, VA*

- Utilized JavaScript frameworks in tandem with JSON to enhance dynamic web application features.
- Automated permission data extraction from CSV/JSON sources using Python for efficient account management.
- Managed real-time web access control leveraging Flask and JSON functionalities.

## PROJECTS

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### GPT-4 Powered Resume Analyzer - JavaScript, HTML, CSS, Flask

05/2023 – Present

- Created a responsive web application to facilitate resume evaluations using OpenAI's GPT-4 model, enhancing the quality of user resumes by providing immediate and precise feedback.
- Designed a seamless interface with HTML, CSS, and JavaScript for resume uploads and analysis.
- Integrated Flask as the backend framework to handle user requests and interface with the GPT-4 model.

### Covid19 Data Manager - Java

03/2023 – 05/2023

- Designed an efficient data ingestion pipeline to regularly fetch and update data from NIH.
- Ensured the application was scalable to accommodate growing data sets and changing data structures.

### Keyword Data Analyzer - Python

01/2023 – 03/2023

- Developed a Python-based application to scrape, analyze, and extract insights from keyword trends on Reddit over a span of 36 months.
- Highlighted key events influencing keyword popularity through user-friendly data presentations.

## LEADERSHIP EXPERIENCE

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### GERMAN Club Fraternity

08/2021 – 05/2023

*Elected Officer & Leadership Chair*

*Blacksburg, VA*

- Organized and led various events such as the annual Leadership Summit, Public Speaking & Interview Prep Seminars, and an Internship Matching Program.