

# Brian A. Bell

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## EDUCATION

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### Virginia Tech College of Engineering

MS, Computer Science | Focus: Software Engineering, Artificial Intelligence, HCI  
BS, Computer Science and Mathematics | Accelerated BS/MS program

Expected Graduation Date: May 2023

Blacksburg, VA

### Blue Ridge Community College

AS, Computer Science | Sigma Alpha Pi Honor Society, STEM Club, Enactus, Adventure Club

May 2019

Weyers Cave, VA

## TECHNICAL SKILLS

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

**Frameworks:** Node, Locust, Flask

**Tools:** Git & Github, IntelliJ, Eclipse, Visual Studio Code

**OS:** Bash, Linux, UNIX Shell

## RELATED EXPERIENCE & PROJECTS

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### Software Development Intern, *Berkeley Alternative Markets*

May 2021 – Aug. 2021

- Tested & analyzed company data sets using various frameworks such as Node, Flask, and Locust.
- Aided in the development of a front-end insurance application designed for customer use.

### (Javascript) Object Detection Application, *Personal Project*

Nov. 2021 – Current

- Application which analyzed live video feed and accurately assigned object types to visible objects within the frame.
- Utilized a pre-trained model for common object classification which was provided by the ml5 Javascript library.
- Future application aimed to aid in vehicle related fields such as autonomous driving and street view cameras.

### (Python) Keyword Data Analyzer, *CS Capstone Project*

Aug. 2021 – Dec. 2021

- Developed a program which scraped reddit keyword data and discovered notable trends over a 36 month period.
- Designed to support our client in their research towards social trends and keyword usages throughout the pandemic.
- Utilized libraries such as NumPy, Pandas for data analysis in addition to the Reddit Pushshift API.

### (Java) Covid19 Data Manager, *Data Structures & Algorithms II*

Aug. 2020 – Feb. 2021

- Lead a team of three in the development of a program which analyzed the public data set provided by National Institute of Health (NIH).
- Provided the user with simplified tables which held calculated statistics which would be useful in an academic setting.
- Utilized the Binary Tree data structure which was searched using various tree traversal techniques such as inorder, preorder and postorder traversals.

## LEADERSHIP EXPERIENCE

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### Leadership Chair, *GERMAN Club Fraternity of VirginiaTech*

Aug. 2021 – Present

- Organized and led various events such as an annual Leadership Summit, Public Speaking & Interview Prep Seminars, and an Internship Matching Meeting.
- Participated and facilitated various philanthropic events such as soup kitchen volunteering, mental health fundraising, and free tutoring services.

### Member, *Entrepreneurship Club*

Aug. 2020 – March 2021

- Worked alongside other driven individuals from various other majors to produce potential consumer products and services.
  - Pureezie* - Subscription based startup which aimed to analyze consumers daily nutrition and supply macro/micro deficiencies through a weekly shipment of smoothie ingredients.
  - AI Playroom* - Collection of games including tetris, chess, and poker which provided the player with various challenges against AI opponents.