

# Alex Kammann

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## Education

**Virginia Tech**, Blacksburg, VA

**2021-2025 (expected)**

B.S in Computer Science, Cybersecurity Minor

Current GPA: 3.96/4.00

Relevant coursework: Cloud Software Development (JSF), Data Structures and Algorithms (Java)

Intro to Computer Organizations (C), Intro to Problem Solving in Computer Science (Python)

## Work Experience

**QR Genetics**, Tel Aviv-Yafo, Israel

*Data Science Intern*

**May 2023 - August 2023**

- Designed and built a company website to efficiently recommend drugs to treat rare genetic diseases
- Stored large amounts of medical data in Microsoft Azure
- Used Python's NetworkX library to build a network of connections between drugs and their targeted genes
- Built a responsive front-end design using HTML, JavaScript and CSS (video in link below)

## Extracurricular Experience

**Hokie Electric Vehicle Team (HEVT)**, Blacksburg, VA

*Team Member*

**August 2022 - Present**

- Developing lane centering algorithm for electric vehicle
- Participating in 4 year long EcoCAR ev challenge through Virginia Tech with a consumer focus

**Virginia Tech AI/ML Club**, Blacksburg, VA

*Club Member*

**August 2022 - Present**

- Gaining hands-on experience with AI and ML tools including TensorFlow and scikit-learn
- Collaborating with club members to explore reinforcement learning algorithms in Amazon's DeepRacer competition

## Projects (<https://alexkamm123.github.io/>)

**Cloud Software Applications**

**March 2023**

- Used Java Server Faces and mysql to create multiple complex cloud applications
- Applications utilize API's, have user account functionality, and password encryption

**External Sorting Algorithm**

**March 2023**

- Class project using Java to sort a large input file of binary data based on a designated key value
- Implements heaps and buffers to do a replacement selection sort into an 8 way multiway merge sort

**Stock Analyzer**

**October 2022**

- Scrapes company data from balance sheet using Python's BeautifulSoup library
- Calculates 5 common stock valuation ratios and graphs results using Matplotlib

## Awards and Certificates

**Dean's List with Distinction**

**August 2021 - December 2021 and August 2022 - December 2022**

- Awarded for taking 12 or more credits and earning a GPA of at least 3.75/4.00

**John L Pratt Scholarship**

**August 2021 - December 2021**

- Awarded for outstanding academic excellence in the Virginia Tech College of Engineering

## Skills

- Hard skills: Java (advanced), Python (intermediate), C (intermediate), Microsoft Office Suite, Google Suite, Git, JSF, Salesforce, XML, CSS
- Soft skills: Communication, Teamwork, Attention to detail, Work ethic, Accepting feedback
- Languages: English (native), Spanish (advanced), Hebrew (beginner)
- Hobbies: Tennis, Chess, Pickleball, Disc Golf