

# Carson G. Russo

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Active Interim Secret Security Clearance

## EDUCATION

### Virginia Polytechnic Institute and State University

B.S. in Computer Science and B.S in Applied Discrete Mathematics

Blacksburg, Virginia

Expected Graduation, May 2026

- o **Concentrations:** Software Engineering and Applied Mathematics
- o **GPA:** 3.48/4.00
- o **Computer Science In-Major GPA:** 3.6/4.00
- o **Related Coursework:** Algorithm Analysis, Cryptography, Data Structures & Algorithms, Operating Systems, Computer Organization, Combinatorics, Object-Oriented Programming

## EXPERIENCE

### Diary Study Web Platform

Undergraduate Research Assistant

Blacksburg, Virginia

Aug 2024 – Present

- Developing an interactive web platform for diary-based learning, enhancing human-computer interaction education through software matching, diary analysis, and intelligent template generation
- Implementing a full-stack web platform using **ReactJS**, **SQL/NoSQL**, and applying **AI** topic modeling techniques for data-driven insights
- Collaborating with a multidisciplinary team to explore design alternatives and deliver written and oral presentations

### Northrop Grumman

Software Engineer Intern

Baltimore, Maryland

Jun 2024 – Aug 2024

- Utilized **Python** Libraries (Plotly, pandas) and implemented parallelization to optimize software, reducing runtime from **35 hours to 1 hour**, significantly improving efficiency and productivity
- Designed a dashboard using **Plotly Dash** to display experimental data in a user-friendly manner, enhancing data accessibility and visualization for end-users
- Implemented a **Jenkins** pipeline to provide CI/CD, streamlining deployment and improving future development workflows

## PROJECTS

### AI Study Assistant

Full Stack Web Application | [studymaster.io](https://studymaster.io)

ReactJS | Spring Boot | PostgreSQL

Jun 2024 – Present

- Developed an **AI-powered** study platform that creates personalized study guides and practice problems, currently used by students across over five universities to enhance exam preparation with targeted learning materials
- Designed the front end using **ReactJS**, and implemented a backend system with **Spring Boot** to create a **RESTful API** that manages user accounts with **JWT** authentication and email verification
- Utilized a **PostgreSQL database** and deployed the application on an **EC2** instance, achieving a scalable infrastructure that supports efficient data storage and access for users

### Stock Market Predictor

Full Stack Web Application | [WEBSITE URL](#)

ReactJS | Python | Flask

Aug 2024 – Present

- Developing a stock market prediction web application using a **React** frontend and **Flask** backend, incorporating **data scraping** with pandas and **machine learning** models with **scikit-learn** to predict daily stock price movements

## ACTIVITIES AND LEADERSHIP

### Brazilian Jiu Jitsu Instructor

Mixed Martial Arts Club at Virginia Tech

Blacksburg, Virginia

Feb 2024 – Present

- Instructed Brazilian Jiu Jitsu and self defense classes for the Mixed Martial Arts Club at Virginia Tech

## SKILLS

**Languages:** Python, Java, JavaScript, HTML/CSS, SQL, C

**Developer Tools:** AWS, Postman, Git, Bit Bucket, Jira, Jenkins, VMware

**Libraries/Frameworks:** Spring Boot, PostgreSQL, ReactJS, Bootstrap, NodeJS