

# André Shannon

he/him/his

## Contact

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## Skills

### Advanced

Python • C++ • Java • Git  
Mathematica • LaTeX

### Introductory

JavaScript • CSS • SQLite • HTML

## Personal Projects

### Discord Chat Bot

📅 November 2021

- Integrated OpenAI's GPT-3 NLP model into a Discord chat bot
- Built with PRAW Reddit API and hosted on AWS EC2

### MNIST Image Classifier

📅 May 2021

- Created a Python ML classifier to classify digits from MNIST dataset
- Built from scratch (only external library used was Numpy)

## Honors

- ★ James D. Crump Prize: Mathematics award for outstanding senior
- ★ Mary and Joseph Kent Computer Science Award
- ★ Phi Beta Kappa: Honor society
- ★ VS Lawrence Mathematics scholarship
- ★ Outstanding Student in Mathematics
- ★ UR Summer Research Fellowship
- ★ Presidential Scholar ( $\frac{1}{3}$  tuition)
- ★ International Collegiate Programming Contest: 16<sup>th</sup> place Mid-Atlantic Region
- ★ Putnam Mathematics Exam: Scored 9

## Interests & Hobbies

- ♥ Former Quadball Varsity Captain
- ♥ Ultimate Frisbee Varsity Team
- ♥ High Ropes Course Facilitator
- ♥ Outdoor Recreation Trip Leader
- ♥ Soccer Recreation League
- ♥ Piano
- ♥ Reading Fantasy Novels
- ♥ Solving Various Rubik's Cubes

## 🎓 EDUCATION

### University of Richmond

📅 August 2018 - May 2022

📍 Richmond, VA

- Bachelor of Science in Mathematics and Computer Science
- Departmental Honors in Computer Science
- GPA: 3.89/4, summa cum laude

## 📁 EXPERIENCE

### AI Training for Mathematics

*Outlier (Scale AI)*

📅 January 2024 - Present

📍 Remote

- Created complex, math oriented prompts for the AI to answer relative to specific competencies and rated the responses
- Joined the quality assurance team to give feedback on other taskers' prompts and ratings

### Assistant Site Director / Teacher

*Integem - Summer Augmented Reality Camp*

📅 June 2023 - July 2023

📍 Larkspur, CA

- Instructed various week-long augmented reality courses for 6-18 year olds using Integem's software
- Courses included Python coding; creating 3D models through Roblox and Mixamo; building, connecting, and controlling robots (Crowbot and Raspberry Pi Pico car); and incorporating AI using Google Vision kit and Nvidia Jetson Nano

### Independent Researcher

*University of Richmond*

📅 August 2021 - May 2022

📍 Richmond, VA

- Developed provably robust deep learning explanation methods for image classifiers using Python
- Reviewed literature and collaborated with University of Florida colleagues to edit prototype code
- Presented findings in honors thesis and gave oral presentation to university community

### Academic Tutor

*University of Richmond*

📅 September 2021 - April 2022

📍 Richmond, VA

- Individually tutored 20+ students in Data Structures, Computer Organization, Algorithms, Discrete Structures, Software Systems Development, and Introduction to Computing
- Held weekly drop-in hours for undergraduate computer science students

### Research Assistant

*University of Richmond*

📅 May 2021 - July 2021

📍 Richmond, VA

- Applied explanation methods to deep learning voice processing systems using Python
- Explored current explanation models and adversarial attacks and defenses with 7-student team
- Presented findings with research team in oral and poster presentations to university community