

André Shannon

he/him/his

Contact

☎ +1 (540) 200-7692

✉ andrejshannon@gmail.com

📍 1333 Merced St Richmond, CA 94804

🌐 andre-shannon

🔗 AndreShannon

👤 https://andreshannon.github.io

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: 16th 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
- Undergraduate Rank: 73/762

Relevant Coursework

Machine Learning • Advanced Linear Algebra • Data Structures
Software Systems Development • Algorithms • Computer Security
Programming Languages • Android Programming

📁 EXPERIENCE

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 Univ. 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

Research Assistant

University of Richmond

📅 May 2020 - July 2020

📍 Richmond, VA

- Explored motion planning for car-like robot models with an emphasis on safety using Python
- Worked with research team to define and sample medial axis structures in state space
- Collectively updated and expanded large-scale existing C++ motion planning code base