

Varun V. Rao

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EDUCATION

University of Maryland (College Park, MD) (Aug 2023 - May 2027, expected)

B.S., Computer Science (Honors); Minor in Robotics and Autonomous Systems; GPA: 4.0/4.0

- Extracurriculars: Google Student Developer Club, Terrapin Rocket Club, BigThinkAI
- Current/Past Coursework: Discrete Structures, Intro to Computer Systems, Differential Equations

INTERNSHIP/LEADERSHIP EXPERIENCE

Center4Bi/OPS Security, Data Scientist Intern Virtual (Dec 2021 - Jan 2023)

- Developed SQL algorithms, and automated data pipeline processes to clean and evaluate large datasets from multiple disparate sources for OPS Security Group and visualized insights
- Coordinated data from different databases into a data warehousing platform via ETL pipelines
- **Technologies/Frameworks Used:** Fivetran, Snowflake, SQL, HubSpot, Astrato.io, Python

WordX (AIS), Software Engineer Intern Reston, VA (Virtual) (May 2024 - Aug 2024)

- Collaborated with engineers and interns to develop a fully automated data ingestion process required to assist the retrieval-augmented generation architecture for in-house LLM
- Utilized advanced prompt engineering techniques and GPT models to ingest PDFs into text and organize client documents into JSON payloads, to be delivered to data storage structures
- **Technologies/Frameworks Used:** Python, Azure DevOps, Azure OpenAI Studio, cv2, JSON

PROJECT EXPERIENCE

Glen Pi Geeks, durjaman27.github.io Warrington, PA (Jan 2017 - Jun 2023)

- Founded to educate peers on Python and Raspberry Pi, later adding multiple members
- Hardware projects → Photobooths w/ Amazon Facial Recognition, detecting weather data
- Software projects → COVID-19 case analysis, streaming service analysis, portfolio optimization
- **Technologies/Frameworks Used:** Python, RaspberryPi, Kaggle, AWS (Rekognition, SageMaker), Google Colab, sklearn, PyPortfolioOpt, yfinance, Pandas, NumPy

Sourcerer, sourcerer.info College Park, MD (Jan 2024)

- Using Google Gemini to generate reliable sources/articles based on user-inputted research topic
- Implemented using a Django app hosted through AWS Lightsail and personal domain
- **Technologies/Frameworks Used:** Python, Django, HTML, CSS, FileZilla, Lightsail, SSH, Linux

Completions, completions.netlify.app College Park, MD (Jul 2024)

- Developed a replayable NFL-themed game inspired by NYT's Connections game, using React.js
- Utilized React hooks, state management, async functions to handle dynamic game logic & UI

SKILLS

Technologies: AWS (Lambda, LightSail), Atlassian, MongoDB, React, Django, Azure DevOps,

Languages: (*Proficient*) Python, Java, HTML/CSS; (*Familiar*) R, JavaScript, SQL, C

OTHER POSITIONS, AWARDS, & CERTIFICATIONS

CB South Best CS Student, 2022-2023

UMBC Hackathon (Best Use of MongoDB), Sep '23

Wharton Data Science Academy, Summer '22

DataCamp Certified Data Scientist, Aug '19

Harvard CS50W - Web Programming w/

Python+JS, Oct '23