

JUSTIN DEUTSCH

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OBJECTIVE Seeking a full time position focused on data science, artificial intelligence, and machine learning.

EDUCATION

Bachelor's of Science in Computer Science, Math Minor

Virginia Tech, Blacksburg, VA, May 2021

- In Major GPA: 4.00 out of 4.00
- Overall GPA: 3.94 out of 4.00

High School Diploma

Allentown Central Catholic High School, Allentown, PA, June 2017

- GPA: 4.14 out of 4.00

SKILLS

Python

C/C++

Java

Docker

JavaScript/TypeScript

Git

WORK EXPERIENCE

AI Intern — January 2019 - Present

Alion Science and Technology, Annapolis Junction, MD

- NEAT genetic algorithm for training AI models
- Geometric learning for graph classification
- DDQN for path planning in unknown environments
- Ensured best practices for Docker and GitLab

AI Intern — May 2018 - September 2018

Engility Corporation, Chantilly, VA

- Launched the Adaptive Training research project
- Developed a data pipeline to update training based on past results
- Collaborated on a 6 person team on various technical solutions

Summer Research Intern — June 2017 - August 2017

Intertek, Allentown, PA

- Helium Pycnometry to determine density
- Differential Scanning Calorimetry to measure heat of fusion
- Dynamic Mechanical Analysis to study storage and loss modulus
- Fourier Transform Raman Spectroscopy for spectral vibrations

LEADERSHIP

Relay For Life Director — May 2020 - Present

Lead a 30 person executive board and 100 person committee to host the nation's largest collegiate Relay For Life event fundraising \$400,000 for the American Cancer Society by facilitating various campaigns to raise awareness on campus

Relay For Life Webmaster — September 2019 - May 2020

Managed a 3 person team to oversee all email marketing campaigns and analyzed fundraising data for effectiveness

Computer Science Ambassador — March 2019 - Present

Hold various information sessions to inform current and potential students about opportunities in Computer Science

Software Sub-Team Lead — May 2018 - May 2019

Headed a 5 person team developing software for the AAV-VT design team and formalized documentation of final results

Eagle Scout — 2017

Fundraised \$1,700 dollars and led up to 6 people at a time to construct a firepit with benches and path

PERSONAL PROJECTS

SpaceX RL Lander — Present

Training TD3 and PPO to land a rocket vertically in an OpenAI Gym environment

AI Poker Player — Present

Using game theory and statistics to train a reinforcement learning to play poker including real time player strategy learning

Pathfinding Visualizer — April 2019

Allows the user to set start, finish, and barrier points then depicts the A* algorithm in real-time

VT Facebook Chatbot — December 2017

Answers various questions such as the address of or telephone number for a building on campus

RELEVANT COURSES

Intro to Computational Bioinformatics — Fall 2020

Cloud Software Development — Fall 2020

Formal Languages — Fall 2020

Intro to Data Analytics and Visualizations — Spring 2020

Cryptography I — Spring 2019

Docker Containerization — Spring 2019

Computational Neuroscience and Engineering — Fall 2019