

JEREMIAH THOMAS

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EDUCATION

University of Virginia

B.S. Systems Engineering, B.A. Physics, GPA: 3.71
Minors in Computer Science and Design Integration

Charlottesville, VA
2021

Selected Courses

Deterministic & Stochastic Decision Models, Statistical Learning and Graphical Models,
Data and Information Systems, Principles of Modeling for Cyber-Physical Systems

EXPERIENCE

Sandia National Labs

Systems Engineering Intern

2020

- Working with many stakeholders to review and centralize knowledge
- Modeling system and requirements with GENESYS and MagicDraw

Intelligent Processing of Materials Group (UVA)

Research Assistant

2019-pres.

- Modeling and simulating alloying process using Rivanna HPC cluster
- Processing and visualizing results with Python and Tecplot

University of Virginia Physics Department

Grader - General Physics 1

2020

- Managed online grading system as first point of contact for 450+ students
- Created weekly homework solutions and proctored midterm

Center for Laser and Plasma for Advanced Manufacturing (UVA)

Research Assistant - NSF Funded Research

2019

- Deposited thin films and characterized materials with lasers
- Analyzed and visualized data with Excel, Python, and Tableau
- Automated data collection from old equipment with Python

University of Virginia Information Technology Services

Help Services Intern

2018-2020

- Migrated and updated internal troubleshooting knowledge base
- Reviewed employee actions to resolve internal and external complaints

Extracurriculars

- UVA Student Council
◦ Engineering Representative, Student Life Committee Member
2018-2020
- Engineering Student Council
2017-2019

PROJECTS

Automated greenhouse: automatic watering and cooling based on temperature and humidity
Arduino and C++ for local control, AWS, SQL, and Tableau for remote control

Blind: resume screener to reduce bias, 4th place at Disrupt the District
Python for natural language processing and regex

Circular ID: prototype clothing lifecycle tracker
AWS and SQL to store information and communicate with remote scanner and app

StyleGAN2: machine learning to generate art and carbon microstructures
Google Cloud and Rivanna HPC for model training, Python for visualization and data prep

AWARDS & SCHOLARSHIPS

Thermo Fisher Scientific Children of Employees Scholarship	2017-2021
Barbara Darden Scholarship	2020
Alwyn C. Lapsley Scholarship	2018
National AP Scholar	2017
National Merit Finalist	2017