Taylor Grubbs

February 18, 2023

Raleigh, NC

2023-Present

Raleigh, NC

Greensboro, NC

2019

2016

tegrubbs1@gmail.com

(919)368-5087

ResearchGate: researchgate.net/profile/Taylor-Grubbs

Github: github.com/tedgrubbs

Personal Website: taylorgrubbs.online/wordpress/

Linkedin: linkedin.com/in/taylor-grubbs/

Education

North Carolina State University

Ph.D. Student in Nuclear Engineering

North Carolina State University

M.S. Physics

University of North Carolina at Greensboro

B.S. Physics

- Graduated on Chancellor's List with Minors in Chemistry and Mathematics
- Inducted into Phi Beta Kappa Honors Society

Skills

• Python, C/C++, GNU/Linux, PyTorch, Rust, bash/shell, SQL, MongoDB, C#, Java, code debugging, fast-learner, detail-oriented, Windows, system/network administration, Git, Deep Learning, Computer Vision, Scikit-learn, LaTeX, technical writing, technical support

Research and Work Experience

Invisible Technologies, Inc

San Francisco, CA (Remote)

AI Data Expert

October 2022 - December 2022

- Acted as subject matter expert for AI dataset creation
- Worked with other experts to organize AI model testing curriculum
- Improved models through adversarial testing

ExoCrypt Investments, LLC

Raleigh, NC

Data Scientist and Machine Learning Engineer

August 2020 - August 2022

- Built a framework in Python and PyTorch for the rapid training and testing of deep neural networks
- Used ideas adapted from image classification literature to discover unique insights about market data
- Built several Python scripts to aid data annotation performed by other team members
- Produced performant models that could search for rare patterns within millions of hours of market data
- Performed extensive model validation to ensure expected results across different end-user devices

NCSU Department of Physics

Raleigh, NC

Lead Teaching Assistant

August 2018 - December 2019

- Instructed General Physics labs in electricity/magnetism and Newtonian Mechanics for undergraduate students.
- As Lead TA was responsible for the instruction of lab lesson plans to other TAs

 Received consistently high reviews from students regarding my communication and knowledge of the subject matter

NCSU Department of Physics

Raleigh, NC

Brief Research Work

December 2018 - April 2019

- Simulated the travel of ultracold neutrons through experimental setups in C++.
- Performed data analysis using the CERN Root library
- After leaving the project I helped instruct group members to bring them up to speed on the code's inner working so that they could continue the project.

CData Software, Inc.

Chapel Hill, NC

Software Developer/Technical Support Representative

March 2017 - July 2018

- Helped connect customers' databases like SQL, MySQL, etc to business intelligence sources like Salesforce, Dynamics 365, QuickBooks and dozens more
- Worked at fast pace with customers and team members to solve issues quickly
- Debugging and development in Java and C#

UNCG Department of Chemistry and Biochemistry

Greensboro, NC

Undergraduate Researcher - Physical Chemistry

January 2014 - December 2016

- Programmed microcontroller for solar tracking of a linear Fresnel refelector
- Managed the operation of laser-induced photodissociation experiments of ozone with carbon tetrachloride to create chlorine monoxide
- Programmed Lua scripts in SIMION for the simulation of molecular transport to guide design of an electric molecular trap

UNCG Department of Physics and Astronomy

Greensboro, NC

Undergraduate Teaching Assistant - General Physics

January 2016 - December 2016

- Aided the in-class instruction of advanced general physics classes

Grubbs Tree and Shrub Care

Broadway, NC

General Laborer

2008 - 2016 (Summers)

- Performed general landscape maintenance and installation tasks

Certifications

• CompTia Security+, 2022

Extra

Side Projects

- Personal code and writing projects see Github and personal website link at top
 - Logging system in Rust
 - Navier-Stokes Fluid simulation in C++
 - IT tutorials for SIEM configuration and exploit detection
 - Object detection with neural networks