

Tristan Boler

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Work & Experience

Granite Data Solutions - IT Technician

Oct 2024 - Current

- Travel across USA and Canada to install servers and switches for hospital and mall's IT infrastructure.
- Configure and burn-in Cisco switches revolving around Cisco NX-OS (Linux based OS)
- Manage warehouse inventory and fulfill shipments for clients' inventory to various project sites.
- Partnered with Lenovo to troubleshoot and repair hardware issues with laptops.

LambdaClass - Applied Cryptography Intern

Sep 2023 - Jan 2024

- 20-week internship maintaining an open-source Rust library for cryptographic functions including SNARKs and STARKs provers.
- Studied elliptic curves and zero-knowledge proofs alongside other interns, building and benchmarking different functions of the code base.
- Built a naive approach to Justin Drake's SuperNova prover from his recent paper to demonstrate and teach new cryptographic techniques alongside colleagues.

Formation - Backend Engineering Fellow

Jan 2023 - Feb 2024

- *Rising Tide Award* - Recognized for going above and beyond standard teamwork expectations to support other engineers with thoughtful feedback.
- Selected for competitive fellowship for personalized coaching from industry professionals.
- Completed independent projects, pair-programming sessions and mentor-led study groups.

System Management and Production Center, UAH

Feb 2020 - Apr 2022

Research Assistant II

- Developed software and office tools using C#, ASP.NET, C# framework, and Java for contracted jobs given to our IT department. Provided project specifications for 3 projects to deliver while implementing an agile style workflow.
- Developed payroll system to be used within the department which was adapted campus wide for 854 faculty and student workers.
- Programmed productivity tools with BASH and Python scripts to automate colleagues' workflows between three departments of the office for 40 people.
- Digitized archived specification and parts lists for about 10,000 documents into SQL databases for contractors to query.

Python Programming Tutor Aide - DETECTS

- Mentored Python/C/C++ and provided educational programming resources for 4 high schools.
- Demonstrated use of Raspberry Pi and other microcontrollers with various sensors.
- Educated 80 students on how to properly test and record results, and how to clean and analyze data, as well as how to follow engineering methods to build payloads to send to the International Space Station.

Freelance Illustrator & Programmer

May 2014 - Current

- Developed frontends using HTML, CSS, JavaScript; provided graphics and illustrations; and fixed existing codebases, adding new features for clients on a freelance basis.

Education

University of Alabama in Huntsville

Aug 2017 - Dec 2021

- Bachelor's of Science, Major in Computer Science, Dean's List
Art Studio Minor
GPA: 3.46/4.0

Accomplishments & Certifications

UAH i4 Program

Aug 2019 - Mar 2020

- Competitive pipeline training program through a partnership with Northrop Grumman.

Confidential Level Security Clearance

Feb 2020 - Apr 2024

CompTIA Sec+ Certificate

Feb 2022

- Verification ID: 3VDF2GLN9PQQ1VGM