

Srilokh Karuturi

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PROJECTS:

BITCOIN TEST NODES • BlockTrace • C++, Python, UNIX	August 2021 - Present
<ul style="list-style-type: none">• Compile Two Independent Bitcoin Core Nodes on separate machines running through test network• Apply the ability of implementing 100+ C++ files• Use WireShark's official Bitcoin Protocol to view network packets & assess network flow	
MIPS Snake Game • Computer Architecture • MIPS Assembly	Nov 2021
<ul style="list-style-type: none">• Recreate Snake using MIPS & Mars IDE(Bitmap Display, Keyboard)	
BINARY SEARCH TREE WORD CROSS REF • Computer Science II • Java	October 2021
<ul style="list-style-type: none">• Program will list words on the fly in Alphabetical order(using BST) from any word document	
QUADROPOLE LAB • Engineering Physics 2 • Python	July 2021
<ul style="list-style-type: none">• Visualize the slingshot effect of an electron from the electric field created from a quadrupole using Visual Python	
DIPOLE LAB • Engineering Physics 2 • Python	July 2021
<ul style="list-style-type: none">• Graph the Simple Harmonic Motion when a dipole is in a uniform electric field using NumPy/matplotlib	

EXPERIENCE

BlockTrace, Austin, TX, Software Engineering Intern • Build applications using Bitcoin source code for cryptoanalysis	Fall 2021
<ul style="list-style-type: none">• Maintain virtual machines which act as test nodes for development• Assess to understand network traffic between nodes using Wireshark Bitcoin Protocol• Create weekly reports for progress, research, deployment, goals.	
Tom Glenn High School, Leander, TX Information Technology Assistant • Technology Deployment & Mentorship	Fall 2018
Help IT Director to setup/deploy over 1000 Lenovo ThinkPad's, iPads, etc. <ul style="list-style-type: none">• Actively help 5+ students daily with devices, laptop renewal, troubleshooting	
Target Corporation, Cedar Park, TX, Guest Advocate • Head Cashier • Guest Service Rep • Front End	Nov 2018 – Oct 2020
<ul style="list-style-type: none">• Serve excellent guest service, reinforce promotion strategies• Perform strategic discussions for over 72 transactions per shift to increase sales and satisfaction• Push over 100+ Carts, 50+ Stock, 50+ Online-Orders daily	

ACTIVITIES:

UTD TEXSAW 2020 COMPETITION • Placing Top Ten • Virtual Capture the Flag Competition for Cybersecurity	November, 2020
<ul style="list-style-type: none">• Web Security, Penetration Testing, Forensics, Crypto, Pwn, Reverse-Engineering, Web-Analysis	
CodePath Cybersecurity Accelerated 6 Weeks Course	January 2020 - April 2020
<ul style="list-style-type: none">• CTF/Project Based approach to learning fundamentals of Cyber Security• OWASP Top Ten, SQL Injection, Web Application Vulnerabilities, Pwn, etc.	
CodePath Software Engineering Course Observer Role (in progress)	May 2021 – Present
<ul style="list-style-type: none">• Data Structures, Interview Preparation, Software Design, etc.	
JetBrains Java Developer Course (in progress)	June 2021 – Present
<ul style="list-style-type: none">• Basics to Objects Project Based	
Kattis Problem Archive • ranked 16,371 out of 200,000+	June 2021 – Present
<ul style="list-style-type: none">• solve challenging critical thinking problems using Java, C++, Python• used by International Collegiate Programming Contest	
OWASP Juice Shop • Insecure Web Application (in progress)	June 2021 – Present
<ul style="list-style-type: none">• Hackable web application to highlight OWASP Top Ten Vulnerabilities	

LANGUAGES & TECHNOLOGIES:

- Python, C++, Java, Lua, JavaScript, Pandas, NumPy, Matplotlib, Vpython, OpenGL, GLEW/GLFW3, MIPS,
- Burp Suite, Microsoft Office, JetBrains Suite for Software Development, XCode, Jupyter Notebook, Wireshark, MARS

EDUCATION:

The University of Texas at Dallas GPA: 3.64	Jan 2021 - May 2023
Bachelor of Science in Computer Science	
Austin Community College	Aug 2017 – Aug 2021
General Studies	