

Srilokh Karuturi

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EXPERIENCE

BlockTrace, Dallas, TX, Software Engineering Consultant <ul style="list-style-type: none">Query Mainnet Blockchains using nodes for blocks, transactions, hash rate, difficulty, height, etc.Create 5+ Comprehensive Jupyter Notebooks for data analysis, milestones, development, etc.Access Public & Private API's to Query Data in JSON & XML & Simple Text for Python Data Analysis	December 2021 – Present
BlockTrace, Austin, TX, Software Engineering Unpaid-Intern • Build applications for cryptoanalysis <ul style="list-style-type: none">Maintain virtual machines which act as test nodes for development, testing, data, etc.Assess to understand network traffic between nodes using Wireshark Bitcoin ProtocolShow Proficiency in Python, JSON, Java, C++, CLI Commands, etc.Explain complex concepts in simple manner(Blockchain Technology, Peer-to-peer, Proof-of-work, smart contracts, GAS fees, etc.)	August – December 2021
Tom Glenn High School, Leander, TX Information Technology Assistant • Technology Deployment & Mentorship <ul style="list-style-type: none">Help IT Director to setup/deploy over 1000 Lenovo ThinkPad's, iPads, etc.Actively help 5+ students daily with devices, laptop renewal, troubleshooting	Aug – Dec 2018
Target Corporation, Cedar Park, TX, Guest Advocate • Head Cashier • Guest Service Rep • Front End <ul style="list-style-type: none">Serve excellent guest service, reinforce promotion strategiesPerform strategic discussions for over 72 transactions per shift to increase sales and satisfactionPush over 100+ Carts, 50+ Stock, 50+ Online-Orders daily	Nov 2018 – Oct 2020

PROJECTS:

Python Data Cleaning/Analysis Scripts • BlockTrace • C++, Python, UNIX <ul style="list-style-type: none">Access Public & Private API's to Query Data in JSON & XML & Simple Text for Python Data Analysis(Investigation Purpose)Create Jupyter Notebooks for data analysis, data cleaning allowing for input/output .csv	January 2021
BITCOIN TEST NODES • BlockTrace • C++, Python, UNIX <ul style="list-style-type: none">Compile Two Independent Bitcoin Core Nodes via testnetPresent 10+ use cases of Bitcoin-CLI for investigation, development, data fetching, etc.Use WireShark's official Bitcoin Protocol to view 100+ network packets for assessmentFork Bitcoin Source Code & Create Changes for in-house software	August – December 2021
Personal Website • HTML5 • CSS • JS • Github Pages <ul style="list-style-type: none">Express creativity, professionalism, socials(LinkedIn, Git, etc.), proficiency in HTML5/CSS/SASS/JS, Git, GitHub pages	December 2021
MIPS Snake Game • Computer Architecture • MIPS Assembly <ul style="list-style-type: none">Recreate Snake using MIPS & Mars IDE(Bitmap Display, Keyboard)	Nov 2021
BINARY SEARCH TREE WORD CROSS REF • Computer Science II • Java <ul style="list-style-type: none">Program will list words on the fly in Alphabetical order(using BST) from any word document	October 2021
QUADROPOLE LAB • Engineering Physics 2 • Python • Integral Calculus <ul style="list-style-type: none">Visualize the slingshot effect of an electron from the electric field created from a quadrupole using Visual Python	July 2021

ACTIVITIES:

Infix/Prefix/PostFix Visualizer (in progress) <ul style="list-style-type: none">Create a revenue generating website which will create a tree from prefix/infix/postfix expressions	December 2021 – Present
UTD TEXSAW 2020 COMPETITION • Placing Top Ten • Virtual Capture the Flag Competition for Cybersecurity <ul style="list-style-type: none">Web Security, Penetration Testing, Forensics, Crypto, Pwn, Reverse-Engineering, Web-Analysis	November 2020
CodePath Cybersecurity Accelerated 6 Weeks Course <ul style="list-style-type: none">CTF/Project Based approach to learning fundamentals of Cyber SecurityOWASP Top Ten, SQL Injection, Web Application Vulnerabilities, Pwn, etc.	January 2020 – April 2020
Kattis Problem Archive • ranked <u>16,371 out of 200,000+</u> <ul style="list-style-type: none">solve challenging critical thinking problems using Java, C++, Python (used for contest by ICPC)	June 2021 – Present

LANGUAGES & TECHNOLOGIES:

- Python, C++, Java, Lua, HTML/CSS/SCSS/JS, JSON, Pandas, NumPy, Matplotlib, Vpython, OpenGL, GLEW/GLFW3, MIPS
- Burp Suite, Microsoft Office, JetBrains Suite for Software Development, XCode, Jupyter Notebook, Wireshark, VS Code, Git

EDUCATION:

The University of Texas at Dallas • GPA: 3.1 • Total Credits: 19	Jan 2021 – May 2023
Bachelor of Science in Computer Science • Total Credits: 82/124	
Austin Community College • GPA: 3.3 • Total Credits: 63	Aug 2017 – Aug 2021
General Studies	