Srilokh Karuturi

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EXPERIENCE

BlockTrace, Dallas, TX, Software Engineering Consultant　　　　　　　　　**December 2021 – Present**
- 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

BlockTrace, Austin, TX, Software Engineering Unpaid-Intern• Build applications for cryptoanalysis　　**August – December 2021**
- Maintain virtual machines which act as test nodes for development, testing, data, etc.
- Assess to understand network traffic between nodes using Wireshark Bitcoin Protocol
- Show 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.)

Tom Glenn High School, Leander, TX Information Technology Assistant • Technology Deployment & Mentorship　　**Aug – Dec 2018**
- Help IT Director to setup/deploy over 1000 Lenovo ThinkPad's, iPads, etc.
- 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**
- 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

PROJECTS

AI UTD BUILDING IDENTIFIER IOS APP • Artificial Intelligence/Machine Learning • CoreML• Swift /SwiftUI　　**January 2022**
- Use Apple's Vision Library, Core ML from XCode, and "S(Casp)" common sense reasoning to identify buildings on UTD campus with an IOS application (UTD HackReason 2022)
- Create/Train a ML model by recognizing pixel/color patterns via Convolutional Neural Network

PYTHON DATA CLEANING/ANALYSIS SCRIPTS• BlockTrace • C++, Python, UNIX　　**January 2022**
- Access Public & Private API's to Query Data in JSON & XML & Simple Text for Python Data Analysis(Investigation Purpose)

BITCOIN TEST NODES • BlockTrace • C++, Python, UNIX　　**August – December 2021**
- Compile Two Independent Bitcoin Core Nodes via testnet
- Present 10+ use cases of Bitcoin-CLI for investigation, development, data fetching, etc.
- Use WireShark's official Bitcoin Protocol to view 100+ network packets for assessment

MIPS SNAKE GAME • Computer Architecture • MIPS Assembly　　**Nov 2021**
- Recreate Snake using MIPS & Mars IDE(Bitmap Display, Keyboard)

BINARY SEARCH TREE WORD CROSS REF • Computer Science II • Java　　**October 2021**
- Program will list words on the fly in Alphabetical order(using BST) from any word document

QUADROPOLE LAB • Engineering Physics 2 • Python • Integral Calculus　　**July 2021**
- Visualize the slingshot effect of an electron from the electric field created from a quadrupole using Visual Python

ACTIVITIES:

Infix/Prefix/PostFix Visualizer (in progress)　　**December 2021 – Present**
- Create a revenue generating website which will create a tree from prefix/infix/postfix expressions

UTD TEXSAW 2020 COMPETITION • Placing Top Ten • Virtual Capture the Flag Competition for Cybersecurity　　**November 2020**
- Web Security, Penetration Testing, Forensics, Crypto, Pwn, Reverse-Engineering, Web-Analysis

CodePath Cybersecurity Accelerated 6 Weeks Course　　**January 2020 – April 2020**
- CTF/Project Based approach to learning fundamentals of Cyber Security
- OWASP Top Ten, SQL Injection, Web Application Vulnerabilities, Pwn, etc.

Kattis Problem Archive • ranked 16,371 out of 200,000+　　**June 2021 – Present**
- solve challenging critical thinking problems using Java, C++, Python (used for contest by ICPC)

LANGUAGES & TECHNOLOGIES:

- Python, C++, Java, Lua, HTML/CSS,SCSS/JS, JSON, Swift, 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