Rahul Sangwan

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Education

M.Tech in Computer Science and Engineering, First Year 2018 - 2020
Deenbandhu Chhotu Ram University of Science and Technology, Haryana

B.Tech in Computer Science and Engineering 2013 - 2017
Guru Jambheshware University of Science Technology, Haryana

High School - University Campus School MDU Rohtak, Haryana (CBSE) 2012 - 2013
Secondary School - St Paul Bharati Public School Rohtak (CBSE) 2010 - 2011

Technical Skills

Languages - C, Python, Java, LaTeX, HTML/CSS, x86 Assembly, SQL

Tools/Platforms - Git, gdb, IDA Pro, GNS3, VMware Workstation, FASM, Linux

Libraries/Frameworks - Bootstrap, Semantic-UI, node.js, ExpressJS

Technologies - Wireless Sensor Networks, Blockchain

Interested Areas - Low-Level programming, Binary Exploitation, Sys-internals, Reverse engineering

Experience

Subject Matter Intern, Evelyn Learning Sys Pvt Ltd, New Delhi 2 Months
Worked on Coursehero and Chegg projects as subject matter expert in the field of object-oriented programming, network security, Assembly language. Coursehero and Chegg are US based online learning Platform.

Selected Projects

All projects available on git : https://www.github.com/rahulsangwn

- **Radare2** : It is a open source unix-like reverse engineering framework with command line tools for binary analysis and debugging. My contribution in radare2 involves developing binary hex dump, regression tests along with minor fixes in code and documentation.
- **Online MarketPlace** : Web application for viewing and posting ads to buy and sell different types of goods. It uses Express.js web application framework and Node.js javascript runtime. It is responsive site made using bootstrap (for index page) and semantic-ui (for rest of pages). Site uses Embedded JavaScript templating and mongodb for database. NPM packages like body-parser, mongoose, passport are used to make it fully functional.
- **Crypto Coin** : Created Blockchain using Python. Flask python framework is used to interact with the blockchain, GET and POST requests are used to mine blocks and adding transactions to these blocks. Features like Distributed peer-to-peer, Consensus Protocol, Smart Contract will be added in future.
- **CSV to SQLite** : Java Program to copy the data form csv(comma-separated values) file and adding into the SQLite Database in structured format using the Buffered Reader.
- **Campus Network Mimic** : Design and configure a working network in GNS3 with Cisco IOS images of Routers, Switches, ASA Firewall. Implemented DHCP relay and Network Address Translation on routers. Also integrated and implemented DHCP server roll and DNS server roll using Microsoft Server 2012 R2 with the help of Virtual Box.
- **API Endpoint** : APIs developed using NodeJS and ExpressJS for the Signup, Login, Create User Profile (After Login), View User Profile (After Login). Used MySQL Database for storing data, Bcrypt for hashing, PassportJS to setup local authentication.

Relevant Courses	Data Structures and Algorithms, Operating System, Cloud Computing, Unix Programming, Advance Computer Networks, Databases, Automata Theory, Information Security, Java Complete Reference Udemy, CCNA Routing Switching, CCNA Security, Python Udemy, Discrete electronics, Computer Architecture, Web Developer Bootcamp Udemy
Hobbies	Traveling, Watching Documentaries, Farming
More	**Github** - https://github.com/rahulsangwn/ **Linkedin** - https://www.linkedin.com/in/rahulsangwn/ **Quora** - https://www.quora.com/profile/Rahul-Sangwan-6