Rushin Reddy Ramesh

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762, 1st Main, Indiranagar, 1st Stage, Bangalore 560038, KA, India
(Portfolio and Supporting Documents on https://rushinreddy.github.io)

EDUCATION

Bachelor of Technology   **2020 - 2024**
Manipal Institute of Technology, KA, India   **CGPA: 9.12/10**
Major: Computer Science and Engineering
Minor: Entrepreneurship

Grade 12 - CBSE   **2018 - 2020**
Chaitanya Techno School, Bangalore, India   **Grade : 95.2%**

Grade 10 - CBSE   **2006 - 2018**
Royale Concorde Intl School, Bangalore, India   **Grade : 93%**

ACHIEVEMENTS

Manipal Institute of Technology
- Merit-Based 100% Scholarship
- Teaching Assistant - Fresher and Sophomore Labs
- Department Rank - Top 15 percent
- Received MAHE-ISAC Certified Cyber Crime Intervention Officer (Govt. of India)

Royale Concorde International School
- CBSE Certificate for Outstanding Academic Performance. Top 0.1 percent Nationally (S.St.)
- Middle School Captain
- Co-Best Outgoing Student
- Co-Developed School's e-Voting System

WORK EXPERIENCE

Backend Development - Intern   **June 2023 - August 2023**
SAP Labs, Bangalore

Worked with SAP BTP Cloud Foundry; deployed utilizing microservices for optimized scalability, leveraging SAP HANA as the database system. Ensured security with measures against SQL injections and web vulnerabilities. Collaborated with cross-functional teams and participated in knowledge-sharing sessions.

System Security - Intern   **December 2022 - January 2023**
DALVKOT InfoTech, Bangalore

Assisted the cybersecurity team in conducting security assessments using Nessus and Nexpose, and proposing solutions. Participated in network monitoring and analysis using Wireshark and Snort. Contributed to the development of security documentation and standard operating procedures. Actively engaged in knowledge-sharing sessions, staying up-to-date with the latest trends in cybersecurity.

TECHNICAL SKILLS

Languages: C/C++, Java, Python, Dart, SQL, MATLAB and underlying concepts
Development:
- HTML, JavaScript, CSS
- **Frameworks**: SpringBoot, Django, Flutter, Swift, React

Core Skills
- Human Computer Interaction, Operating Systems, Distributed Systems, Networks, Advanced Data Structures, Design and Analysis of Algorithms, Database Systems
- Ethical Hacking and Cyber Security (h/w, s/w), Kali Linux, Usable Security
- Shell Scripting, UNIX-based systems, Windows

SOFT SKILLS

- Communication & Collaboration
- Critical Observation & Thinking
- Project Management
- Troubleshooting
- Willingness to Learn
- Creativity and Innovation
- Research
- Football (Soccer)

TEST SCORES

GRE General - 329 / 340 + 4 / 6
August 2023
Quant: 169 / 170
Verbal: 160 / 170
AWA: 4 / 6

TOEFL iBT - 115 / 120
August 2023
Reading: 30 / 30
Listening: 30 / 30
Speaking: 30 / 30
Writing: 25 / 30

JEE Main - 97.91 th percentile
January 2020
Physics: 98.05
Chemistry: 96.72
Mathematics: 95.89

NOTEABLE PROJECTS AND RESEARCH   (GITHUB https://github.com/RushinReddy)

Design of Early-Stage Diabetes Mellitus Risk Prediction Using Hybrid Supervised Learning   **Aug 2023 - Oct 2023**
3rd International Conference ANTIC - 2023 by Springer Nature
TechStack: Python. Skills: Logistic Regression (LR), Random Forest Classifier (RFC), Support Vector Classifier (SVC), and Support Vector Regression (SVR)

Feature Packed Music Web-App   **May 2023**
Simple web-app for music streaming. Features: signup and login, adding artists and songs, manage playlists, search songs.
TechStack: HTML, Django, Python.
Skills: WebDev, SQLite3, UI/UX

DarkWeb Crawler and Scraper for Actionable Intelligence   **Feb 2023 - Apr 2023**
Tool to provide actionable intel on criminals' real-world presence to law enforcement. Tool to scrape watch-listed marketplaces from darkweb and popular forums on clearnet. Run transaction analysis for patterns like laundering. Match crypto-wallets and IPs.
TechStack: Python, Scrapy, BeautifulSoup, Specter, TOR.
Skills: Maintaining Anonymity, Blockchain Txns.

Passive Intrusion Detection System   **Nov 2022 - Dec 2022**
Tool to analyse traffic in the network to detect malicious activities like port scanning and raise alerts.
TechStack: C, Python, libpcap, TCPDump, Wireshark cmd line.
Skills: Network and Packet Analysis, Port Scanning, PenTest.

Blockchain Voting System   **Aug 2022 - Oct 2022**
Implemented a secure and transparent voting system using a Merkle Tree-based append-only ledger, ensuring data integrity and voter confidence. Created an intuitive user interface for seamless vote casting and real-time result viewing.
TechStack: Python, HTML, Django
Skills: Blockchain Concpets, Cryptography, UX, Advanced Data Structures

CUDA based Image Steganography   **Apr 2022 - May 2022**
Implement CUDA parallel processing for stenographic embedding. Encryption algorithm ensures the new image is identical to the original image.
TechStack: CUDA C, OpenSSL, libpng.
Skills: Parallel processing, Image Processing, Steganography, SHA256.

CERTIFICATES

- **Open Source Software Development**
  The Linux Foundation | Coursera
- **Project Management**
  Google | Coursera
- **Developing Applications using Swift5**
  LearnQuest | Coursera
- **Usable Security**
  University of Maryland | Coursera
- **Hardware Security**
  University of Maryland | Coursera

- **Software Security**
  University of Maryland | Coursera
- **Python for CyberSecurity Specialisation**
  Infosec | Coursera
- **Ethical Hacking**
  ZSecurity | Udemy
- **Network Security**
  NathanHouse | Udemy
- **Flutter and Dart**
  Maximilian Schwarzmüller | Udemy

EXTRACURRICULARS

- Student Clubs - MIT, Manipal
  - Leaders of Tomorrow - Logistics
  - Chords and Co - Drummer
  - Mafia - Drummer
- RCIS, Bangalore
  - Football (Soccer)
  - MUN (French Delegate)
  - ASTRA Battle-Of-Bands Winner - Drummer

VOLUNTEER WORK

- **AIESEC - MAHE:**
  Taught the underprivileged at local schools.
  Intercultural discussions.
- **Sree Bhavani Educational Society:**
  Taught computer and technology basics & conducted workshops for underprivileged.
- **Interact (Rotary) Club - RCIS, Bangalore**
  Volunteered at orphanages, old-age homes

(For Supporting Documents and Projects kindly visit https://rushinreddy.github.io)