Rushin Reddy Ramesh

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(Documents)

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%
Physics, Chemistry, Mathematics, Informatic Practices

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

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

PROFESSIONAL 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 and proposing solutions. Participated in network monitoring and analysis. 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, Flutter, 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 + 4
August 2023
Quant: 169
Verbal: 160
AWA: 4.0

TOEFL iBT - 115
September 2023
Reading: 30
Listening: 30
Speaking: 30
Writing: 25

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

NOTEABLE PROJECTS [(GITHUB)](GITHUB)

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