Vighanesh Sharma

Master's of Science in Computers Science (MSCS) B.Tech. in Computer Science and Engineering (CSE) Email: vighaneshsharma@gmail.com Alt Email: vxs240002@utdallas.edu Contact No.: +91-9796466366

EDUCATION

• University of Texas

Dallas, Texas. August 2024 - present

Master's of Science in Computer Science (MS CS)

• Indian Institute of Technology (IIT)

Ropar. 2017-2021

Bachelor's of Technology in Computer Science and Engineering (B.Tech CSE)

SKILLS

• Languages: Python, Golang, C/C++, JavaScript, HTML, Intel x64/x86, Java

• Software/Frameworks: Kubernetes, Docker, Linux, Git, Grafana, Prometheus, Guacamole, BDD, Cucumber, REST, PostgreSQL, NoSQL, Flask, React

WORK EXPERIENCE

GE HealthCare

July 2021 - July 2024

Software Engineer (Edison HealthLink PaaS)

- o I designed, built and enhanced **PaaS components** for Edison HealthLink **compute platform**.
- o I did multiple **Proof of Concepts (POCs)**, due to architectural changes of the platform.
- Improved Connectivity Service used for connecting remotely to machines in the infrastructure by automating connection to the VMs and enabling connection through SSH Keys. Also addressed multiple bugs.
- Enhanced and improved logging service by adding functionality to feed logs through REST API, excluding logs, multiline logging etc.
- I maintained and improved Flair component which consisted of a REST API and an AWS lambda services written in Go; by automating BDD tests in Gitlab Pipeline, implementing unit-tests with 90+% coverage, Refactored and reduced the codebase size and addressed critical vulnerabilities.

Software Engineer (EEDP Technical Leadership Program)

- o Developed micro-services in Go and Angular to enable Secure Access for service users.
- Developed and maintained the micro-services for RBAC (Role Based Access Control) Software; Resolved numerous bugs, increased unit test coverage to 90%, and addressed critical vulnerabilities.
- I have worked on a **Patent** titled **'System for Detecting breach using AI'**.

Software Intern (EID), June 2020 - August 2020

o Developed a Web Based CT Scan Viewer using VTK.js, Cornerstone.js and HTML.

CERTIFICATION

• Indian Institute of Science (IISc)

January - November 2022

Advanced Certification Program on 'Digital Health and Imaging Technology'. I recieved an A+.

ACHIEVEMENTS

- Secured a Rank of 2029, 99.8 Percentile (out of 1 million candidates) in JEE Advanced 2017.
- Got Recognised for going Above and Beyond at GEHealthCare for filing a patent.

PROJECTS

- Visual Cryptography Studied and Implemented different Visual Secret Sharing Schemes and compiled all
 the results to implement Coloured Visual Secret Sharing Scheme for General Access Structures in Python.
- Spam SMS Filter in C Language Implemented a Spam SMS Filter in C Language.
- Interactive Portfolio Created personal portfolio in the style of a game web-app using React, Phaser3 and Tailwind CSS.
- x64 Assembly Simulator
- Cryptanalysis of different AES like Lightweight Cryptography Algorithms
- Various Game Projects on Unity3D
- Faculty Management System using PostgreSQL, NoSQL(MongoDB) and NodeJS.
- A Game on FPGA

RELEVANT COURSES

- Computer Science: Data Structures and Algorithms, Operating Systems, Databases, Applied Cryptography, Computer Graphics, Networks, Software Engineering, Theory of Computation, Algorithms and Design, Computer Architecture, Programming Paradigms and Pragmatics, Digital Logic Design, Machine Learning (Andrew NG), Data Science.
- Mathematics: Calculus, Probability and Statistics, Linear Algebra, Integral Transforms and Special Functions, Differential Equations.