

# Sunil Srinivaas Krishnamoorthi Ganesan

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## EDUCATION

### Masters, Software Engineering Systems

GPA: 3.7

Northeastern University, Boston, MA

Expected June 2024

- Relevant Coursework: Program Structures & Algorithms, Object Oriented Design using Java, Web design & UX Engg

### Bachelor of Technology in Information Technology

Sri Venkateswara College of Engineering, Chennai, India

May 2019

- Relevant Coursework: Computer Architecture, Artificial Intelligence, Web Designing, Programming and Data Structures.

## WORK EXPERIENCE

### Software Engineer

June 2019 - July 2022

K7 Computing Private Limited, Chennai, India

- Developed and maintained automation scripts using python for assessing the product's (K7 Total Security) performance and minimized the manual work by 4hrs/person/day
- Ensured product performance by leveraging the developed python scripts, to perform file copying, loading websites, and file installation. Analyzed monthly reports in detail using windows process monitor which led to a perfect product score of 6/6 by AV-Test
- Scanned different malicious samples using profile scanner, an internal python tool to identify and report highly impactful product binaries aiding in the reduction of the size of binaries up to 60 KB
- Engaged with members of the Threat Control Lab to prepare a competitor analysis report which made the product compete with other major AV Vendors (McAfee, Kaspersky, Avira) in terms of ratings and usability metrics
- Created monthly performance analysis reports which aided in analyzing and fine-tuning the product's performance, leading to the AVC-GOLD award given by AV-Test

## SKILLS

### Programming Languages:

C, C++, Python, JAVA, JavaScript

### Web Technologies and Frameworks:

HTML, CSS, JavaScript, MongoDB, Node.js, Angular.js, React.js, MySQL, Bootstrap, Angular, .NET

### Software/Platforms:

IntelliJ IDE, Atom, Jupyter, VS Code, Eclipse, Git, GitHub, Figma, GitLab

## RELEVANT PROJECTS

### Classroom Management Application

Northeastern University - Course: Object Oriented Design

Nov 2022 - Dec 2022

- Designed a classroom project in Java 8, which manages functions for the teachers and administrators such as enrollment validation, random classroom allocation, along with students' immunizations verification following the state laws
- Utilized core Java 8, JAVA Swing UI, Factory Design Pattern, Multithreading and MVC to demo a dashboard for data visualization of student and teacher data showcasing allocated classrooms

### E-Commerce Web Application - Clothing Website

Northeastern University - Course: Web Development and UX

Nov 2022 - Dec 2022

- Collaborated with 3 other members to develop a user-friendly clothing application with dynamic addition and deletion of items, admin panel, cart management and payment authorization using MERN (MongoDB, Express.js, Node.js, React.js)
- Congregated the website with React-Bootstrap to make it responsive and integrated the back-end RESTful APIs with the Stripe payment gateway, Implemented search functionality, Login/Signup functions, bcrypt password masking, and JWT

### Cluster-Based Routing for The Mobile Sink in Wireless Sensor Networks Sri Venkateswara College of Engineering

Feb 2019 - Mar 2019

- Created an energy-efficient routing solution dispatching a mobile sink to find an obstacle-avoiding shortest route through the networks, increasing the nodes and cluster traversal efficiency in Wireless Sensor Networks by 25%
- Simulated node and cluster population, employing NS 2 Discrete Events simulator and OTCL (Object Oriented Tool Command language)

### Full-stack Dynamic Dashboard, Coursera

Feb 2019 - Mar 2019

- Devised a full stack dashboard for a property website, by deploying MERN Stack and included user management control along with dynamic addition of properties connected by a user profile page
- Assembled the dashboard application leveraging complete CRUD functionalities, authentication, pagination, and sorting, Implemented user authentication and charts with React - Refine, seamless UI with Material UI, Cloudinary for cloud storage