AISHWARYE OMER
Graduate Student | Software Engineer

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Graduate student and teaching assistant pursuing Masters of Science in Computer and Information Science. Experienced Software Engineer with a demonstrated history of working on software application development and systems programming in Automation industry. Skilled in C++, Java, Ruby on Rails.

SKILLS

Programming	C++, Java, Javascript, SQL, Python
Frameworks	Ruby on Rails, ReactJS, NS-2(Network Simulator)
Platforms	Linux/Unix, Windows
Tools	Owasp, Virtual Box, AWS, Git

EDUCATION

Master's of Science, PENNSYLVANIA STATE UNIVERSITY   MAY 2021 (EXPECTED)
Major in COMPUTER SCIENCE with GPA of 3.56

Bachelor's of Technology, INSTITUTE OF TECHNOLOGY, NIRMA UNIVERSITY   JUNE 2017
Major in COMPUTER ENGINEERING with GPA of 7.7

EXPERIENCE

Software Engineer in Automation, UNITED AUTOMATION AND SERVICES, India   JULY 2018 - MAY 2019
> **Aspect Object Technology :** Development of control logic, operational logic for ABB's 800xA Distributed Control System (DCS) to provide functionality for process automation, asset optimization and collaborative business processes.
> **Object-oriented programming using Control Modules :** Integrated control algorithms in DCS for repetitive units in Thermal Power Plant for our onsite clients Reliance Industries Ltd.
> **Tuning and Simulation :** Modules for status inspection of I/O signals, variables etc. without manual tagging. Modules for communication between new control units and old control units.

Full Stack Developer, UNITED AUTOMATION AND SERVICES, India   JULY 2017 - JULY 2018
> Developed a scalable Inventory Management System, which Includes front-end and back-end support withREST API (Using Swagger UI for API | Bootstrap | JavaScript | CSS3 | HTML | SQL).
> Reduced client-developer back and forth by 90% by developing a fully customizable event website theme that interacts with a dashboard to generate data and handles customization which gets updated live.

INTERNSHIPS

Software Engineer Intern , RELIANCE INDUSTRIES LTD., India   JANUARY 2017 - MAY 2017
> **Product :** Warehouse Inventory Management - Responsible for building a prototype for a new WIM, from gathering requirements to delivering final code at the end of the semester.
> **Features :** Designed a MVC model. Used PHP for backend code and PostgreSQL for database. Used Postman API to mock requests to server and record and analyze the efficiency of connection. Used JavaFX to develop a user interface. Responsible for Threat Modeling, Secure Code Review, Risk Analysis, Design and/or Architecture Reviews.
> **Unit tests :** Unit tests for all modules covering all test cases to deliver a bug free product
> **Remarks :** Received **A** grade (senior year project) and award for ten most outstanding projects for that year.

PROJECTS

GENERALIZABILITY, ROBUSTNESS AND ELASTICITY (GRE) SCORE FOR COMPUTER VISION MODELS.   FALL 2020
Designed and developed a system to evaluate machine learning models to improve their performance in real-world environment.

HYPERLINE (DISTRIBUTED SYSTEMS)   TEAM OF 2, SPRING 2020
A Distributed Pipeline, which performs each stage of task in series and multiple tasks in parallel to increase performance

PASSWORD VAULT   FALL 2019
Developed a multi user system to store sensitive data for users. Designed to be safe from top 25 most serious software errors as listed by CWE.