Komal Atul Sorte

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Actively seeking Full-Time opportunities starting Jan 2021 | GHC 2020

EDUCATION

Rochester Institute of Technology, Rochester, New York - Master of Science in Computer Science (Expected Dec 2020)
Savitribai Phule Pune University, India - Bachelor of Engineering in Computer Engineering

Aug 2018 - present Aug 2012 - May 2016

WORK EXPERIENCE

Intern - Data Diode Development (Cyber Security) | SIEMENS CORPORATE TECHNOLOGY, New Jersey

May - Aug 2020

- Project: Develop Offline Patch Management framework using WSUS Offline Update.
- **Project**: Automated Hardening automate the process of system hardening based on pre-defined benchmarks.
- Utilized Technologies/Software: Python, PowerShell, WSUS, Linux, Windows, Bash, GitLab, Windows Task Scheduler

Developer | ROCHESTER INSTITUTE OF TECHNOLOGY, New York

Jan – Apr 2020

• Project: Built website for developing experiential laboratories for computing accessibility education (National Science Foundation's Grant).

Team Member/Web Developer | WOMEN IN COMPUTING @RIT, New York

Jan - Apr 2020

Project: Developed a website for GenGyber Summer Camp and to organize outreach events focusing on Cyber Security @RIT.

Intern – Software Developer | SIEMENS CORPORATE TECHNOLOGY, New Jersey

June - Dec 2019

- Project: Developed a Cyber Security product for assessing Power Plants and network control systems. Designed and developed modules and
 macros to cater variety of complex problems and requirements of the Power Plant clients UK's Security Standard: NIS, North American Electric
 Reliability Corporation (NERC) CIP, and IEC 62443
- Project: Integrated CDR technology with Siemens DCU to prevent malicious files to be uploaded over the network.
- Utilized Technologies/Software: Visual Basics, Excel, Python, PowerShell, Data Diodes, FTP, Content Disarm & Reconstruction (CDR), Linux

Software Developer | ROCHESTER INSTITUTE OF TECHNOLOGY, New York

May - June 2019

• **Project**: Developed, customized and evaluated software used in *The Interactive Video Vignettes* project (online tutorials for physics education).

Utilized Technologies/Software: Java, JavaScript, JSON, CSS and HTML5, IntelliJ

Software Engineer | HCL TECHNOLOGIES, India

Aug 2017 - July 2018

- Project: Implemented Failure Mode and Effect Analysis (FMEA) in Active Workspace for client "Siemens India" (Nov 2017 July 2018)
- Project: Developed front-end and formulated back-end SQL queries of Quality Solution QSYS for client "Siemens Germany". (Aug Nov 2017)
- Utilized Technologies/Software: AngularJS 1.5, JS, JSON, CSS, Eclipse IDE, C++, SQL developer, SQL, OpenText Developer

Intern | SIEMENS INDUSTRY SOFTWARE (INDIA) PVT. LTD., India

July 2016 – July 2017

- Project: Worked on migration of Teamcenter core framework from Eclipse 3.x to 4.x. (Nov 2016 July 2017)
- **Project**: Evaluated Rich Client Platform Testing Tool (RCPTT) involving GUI testing automation of Eclipse-based application. (Sept Nov 2016)
- Competition: Siemens Global Hackathon 2017, Semi-finalist on global level
- Idea for Hackathon: Internet of visuals and visualization as a service Enhancing capability of visualization with cloud and augmented reality
- Utilized Technologies/Software: Core Java, RCPTT, ECL, Eclipse IDE & plugin development, Vuforia Unity, Visual Studio, C#

Cisco certified network associate (CCNA) | NETWORK BULLS & IIT KANPUR

June 2015

• 15 days Summer Internship / Industrial Training on live Cisco Routers and Switches by Network Bulls, India. Operations on TCP/IP and OSI models. Authenticating password security. Training on functionality of different networking devices and IP addressing.

ACADEMIC PROJECTS

Automatic Text Generation using Deep Learning

Aug 2020 - Present

• Build and enable an AI agent (LSTM) such that it learns a piece of script and automatically generates text based on appropriate context.

Probabilistic Allocation Using Doubly Stochastic Matrix (Multi-Agent Systems)

Feb - May 2020

• Sampled deterministic allocation from the given probabilistic allocations using Python, Birkhoff Von-Neuman Algorithm, bipartite graphs, perfect matching. **Phase 1:** Decomposition for Doubly Stochastic Matrices; **Phase 2:** Decomposition for Bi-Stochastic Matrices; **Phase 3:** Sampling

Sentiment Analysis on IMDb Movie Dataset

Sept - Dec 2019

• Classified and predicted movie ratings based on several factors and performed a sentiment analysis on the IMDb movie dataset using R and RStudio. Algorithms: Naive Bayes, Decision Tree, Regression, KNN Classifier

Security Evaluation System

May 2019 – Jun 2019

• Designed & implemented a security evaluation system based on the expert system and ML technology. Part 1: Decision making & project specification development. Part 2: Developed Expert system in Java, JavaFX Part 3: Designed & implemented ML app using Tensor flow.

Sudoku

Feb – Apr 2019

• Developed an application with a 3-tier model i.e. MVVM (Observable, Mediator, Singleton design patterns) that generates Sudoku puzzles of varying difficulty using backtracking, .net framework 4.7, C#, Visual Studio 2017, XAML, WPF. **Phase 1**: Generated solutions for 4x4 or 9x9 puzzles. **Phase 2**: Generated puzzles for solutions from Phase 1 that the end user could solve. Create GUI using WPF Framework.

Yelp dataset and Room Occupancy dataset

Feb - Apr 2019

• Phase 1: Web application for querying the Yelp dataset. Phase 2: Datamining using R and applied KNN and Decision tree to predict and visualize facts on Room Occupancy dataset. Utilized Technologies: MySQL, Bootstrap framework, HTML, CSS, PHP, Node.js, Python, RStudio

Undergraduate Project: Single Sign on and digital signature for secured authentication of web services using Kerberos protocol. Sponsored Armament Research & Development Establishment of Defense Research and Development Organization (*ARDE DRDO*), India

**Aug 2015 - May 2016

• Utilized Technologies/ Software: Java, HTML, CSS, JavaScript, ¡Query, PHP, Apache Maven, Apache Tomcat, Apache Studio, SSHA Algorithm

TECHNICAL SKILLS

Programming/Scripting Languages: Python, Java, Android, C#, C, C++, PowerShell, VBA, Bash | Web Technologies: HTML, CSS, JavaScript, JSON, AngularJS 1.5, PHP, Bootstrap framework, Apache Cordova, Visual Basic, Java FX, React.js, XML, REST, API, Flask | SQL and DBMS Programming: MySQL, MongoDB | Project Management Methodology: Agile, Waterfall | Distributed Systems & Networks: Docker, Wireshark, WSUS Offline, AWS | GitLab, GitHub, CI/CD Methodologies, Yaml | Data Structures, Object Oriented Programming (OOP), Algorithms