AMAN HARSH

716-907-8957 | aman7085@gmail.com | 67 Denrose Dr, Amherst, NY 14228 | [LinkedIn](#) | [GitHub](#)

EDUCATION

Master of Science, University at Buffalo, The State University of New York   **Aug 2021 – Dec 2022**
Computer Science and Engineering
Bachelor of Technology, Manipal Institute of Technology, India   **Jul 2012 - Nov 2016**
Computer Science and Engineering

SKILLS & TOOLS

Functional: REST API, MVC Architecture, Object Oriented Design, Reactive Programming, Agile Methodologies
Technologies: Java, Python, C/C++, Go, Spring MVC, Spring Boot, RxJava2, Retrofit, JavaScript, Apache SOLR, AWS, CyberSource, Vault, JSP, JSON, HTML, CSS, Groovy, Gradle, Apache Maven
Database: PostgreSQL, SQL, NoSQL (MongoDB)
Python Libraries: NumPy, pandas, matplotlib, OpenCV, scikit-learn, beautiful soup, tabulate
Tools: Git, Postman, Swagger, Grafana UI, Rally, Jenkins, Splunk, Docker, New Relic, SonarQube
Certified Courses: Machine Learning using Python in Data Science, Swift Programming, ASP.NET with C#

WORK EXPERIENCE

Enterprise Application Engineer, GE Healthcare, India   **Apr 2019 – Aug 2021**
- Bootstrapped GEHC Payment Engine application and implemented authorization, auth reversal, void, refund with CyberSource payment provider.
- Developed REST APIs for customer login using OAuth 2.0 and strengthened security of the application by employing token encryption and digital signature.
- Designed a solution for the implementation of e-check payments and set-up of Autopay.
- Created automated deployment script to setup CI/CD pipeline via Jenkins for QA, UAT and production instances.

Software Engineer, GE Healthcare, India   **Apr 2017 – Mar 2019**
- Scheduled hourly data ingestion and developed query microservices for Federated Search Engine.
- Demonstrated its effectiveness with an improved query time by ~90 percent.
- Configured Grafana UI to monitor health of indexing and query microservices.
- Aggregated distributed product information into a single data source by introducing the ability to manage multiple product catalogs by various user groups.
- Participated in technical knowledge sharing sessions and presented Hybris upgradation steps and RxJava concepts to Digital Technology teams comprising of 80+ members.

Software Engineering Specialist, GE Digital, India   **Jul 2016 – Mar 2017**
- Upgraded SAP Hybris eCommerce platform for the SHS Education application from v5.7 to v6.4.
- Created test scripts using Cucumber for API testing of 10+ RESTful services.
- Improved global search feature to include replaced and compatible products in search results.

Software Engineering Intern, Honeywell Technology Solutions, India   **Jan 2016 – Jun 2016**
- Built an Augmented Reality application on Android for Aircraft Maintenance Engineers for handheld and wearable devices (Java, FFMPEG, PocketSphinx, Wikitude, Glass SDK, PHP).

RESEARCH EXPERIENCE

Data Intensive Distributed Computing Laboratory   **Dec 2021 – Present**
Advisor: Dr. Tevfik Kosar
- Currently working on OneDataShare, a cloud-hosted data transfer scheduling and optimization service with interoperability between multiple transfer protocols.

PROJECTS

Image Stitching: Python, OpenCV, NumPy
- Developed an application in Python to stitch images together to construct a panorama image.

Hybris Launcher: JavaScript, HTML, CSS
- Published a chrome extension on webstore with all the Hybris resources accessible from a single dashboard.

Internet Chat relay over raw TCP Sockets: C++, Socket
- Developed a multi-user chat application handling concurrent messages and requests at the server/clients.

AWARDS & INVOLVEMENT

Bravo Award, for the strong commitment and focus shown to enable the launch of VSCAN Air, GE Healthcare, March 2021
Impact Award-Deliver with Focus, for outstanding contribution in the launch of Payment Engine, GE Healthcare, April 2020
Winner, GE Digital Challenge, a business plan competition for all the new hires, GE Digital, August 2016