

## EDUCATION ▼

**Master of Science (Computer Science)** George Mason University | GPA 3.7/4.0  
**Bachelor of Engineering (Computer Science)** CSVTU | GPA 3.75/4.0

2019 – 2021  
2015 – 2019

## TECHNICAL SKILLS ▼

- Golang, Java, Python, C#, PostgreSQL, Redis, Kafka, Jenkins, Azure, AWS, Kubernetes, Docker, Rancher, Temporal, K6, Robot framework, GraphQL, Snowflake.

## EXPERIENCE ▼

## Software Engineer | Office Depot

June 2021 - Present

- Architected the Pricing and Offers segment for B2B flagship product - **Varis Marketplace**, leveraging cutting-edge technologies such as **microservices, Golang, Postgres, Azure, Kafka, Kubernetes, Temporal** resulting in the 60% increase in processing speed and onboarding of 40 new customers immediately after the **product launch**.
- Designed and implemented a **new feature** called Assortment classification, enabling categorization of Stock Keeping Units(SKUs) and integrating it with pricing and offers segment.
- Migrated to **Confluent Kafka** from Sarama, improving the reliability, monitoring and performance of the Varis application.
- Integrated **Azure blob storage** and **Event Hub** for efficient data storage, retrieval, and seamless event streaming and processing.
- Developed a **cron job** scheduled weekly which generates **reconciliation** reports calculating valid offers counts published for other teams to consume.
- Designed** the Offer Lookup service and introduced caching layer using **Redis** for storing SKU offers from suppliers, thereby improving service **performance** by **40%** and **reducing** each call time from 400ms to **20ms** approximately.
- Collaborated with Business SMEs to gather requirements, engaged with team leads for **technical design** discussions, and **conducted demos** for **cross-functional teams**, showcasing the product's features and capabilities.

## Software Engineer Intern | Nexus 8 International LLC

May 2020 – August 2020

- Designed, tested and deployed the company's software web application named **HIPPRA**, using scripting languages such as **C#, JavaScript, razor, Html, CSS** and **bootstrap** are used to build the front end of the application.
- Developed web components using **ASP.NET Core** framework and **Blazor** & Managed version control and **DevOps** with **Git, Azure**.
- Proposed and created user Interface using **UX/UI** tools like using **Adobe XD** tool to make the application user friendly.

## Graduate Teaching Assistant | George Mason University

January 2020 – May 2021

- Worked as a Graduate Teaching Assistant and lab instructor, **manage** and **instruct** a group of 90+ students for (CS 310) **Data Structures with Java** at GMU, and **grade** their projects and assignment through Blackboard. Monitor and mentor them on the concepts of data structure and **algorithms**, using Java. Hold **interactive discussion session** with students during office hours.
- Prepared learning materials to conduct lab sessions. **Designed** and **develop testers** using **JUnit** for project evaluation and assisted professors in proctoring midterm/final exams.

## PROJECTS ▼

## Notepad Application using Cloud Architecture | Team Lead | George Mason University

Jan 2020 – June 2020

- Used **Spring Boot framework** to create the Notepad to communicate with endpoints using **JSON APIs**.
- Created a Cloud infrastructure using **AWS**. The architecture uses a **VPC, EC2 instances** using **AMIs** and **Packer**, with multiple Subnets to hold the application and **RDS instances** for high availability.
- The data in the application is stored with secure endpoints on **S3** bucket and **RDS** Instances are used for **Database Management**.

## Trilingual Hate Speech Detection using BERT | George Mason University

August 2020 – December 2020

- Developed trilingual hate speech detection system using **NLP techniques** for social media content, focusing on misogyny and aggression across English, Hindi, and Bengali languages. Collaborated with AGILE team and Product Owner.
- Built **multi-task deep neural model** with **BERT** for feature extraction and fine-tuning. Utilized regression analysis and explored sentiment features to enhance identification of implicit aggression, improving content filtering.

## CERTIFICATIONS/PUBLICATIONS ▼

- Microsoft Azure Fundamentals AZ-900 – June 2023
- Published a review paper on "**Machine Learning algorithms, tasks and its implementation on Image Processing**" as the conference paper in the **International Journal of Advances in Management Technology and Engineering Sciences (IJAMTES)** journal, VOLUME 8, ISSUE III, March - 2018).