

Haramrit Singh Khurana

(703) 341-9667 | haramrit09k@gmail.com

LinkedIn: [linkedin.com/in/haramrit09k/](https://www.linkedin.com/in/haramrit09k/) | GitHub: github.com/haramrit09k | Portfolio: haramrit09k.github.io

EDUCATION

- Master of Science, Computer Science | GEORGE MASON UNIVERSITY | GPA 3.76 | Graduating May 2021** **2019 – 2021**
Coursework: Algorithms, Systems Programming, Object Oriented Design, Database Systems, Component-based Software Engineering
- Bachelor of Engineering, Computer Engineering | UNIVERSITY OF MUMBAI | GPA 8.58/10** **2015 – 2019**
1st Runner Up- Best Senior Thesis; 2nd Runner Up – Mumbai Hackathon (2017)

WORK EXPERIENCE

- Software Engineer Intern | Nexus 8 International, Washington DC | Internship** **May 2020 – Aug 2020**
 - Individually developed 2 major web components using ASP.NET Core framework and Blazor in compliance with HIPAA
 - Optimized the image upload process and decreased the upload time by 30% on average
 - Developed test cases and performed unit testing of the application before release to the stakeholders
 - Identified and analyzed new business and functional requirements as a part of requirement gathering sessions with customers
- Backend Developer Intern | Don Bosco Institute of Technology, Mumbai | Internship** **Jun 2018 – Dec 2018**
 - Developed the plan and headed a team of 6 interns that implemented remodeling of the website Don Bosco Journal of Science and Engineering using Node.js, Express and MongoDB
 - Designed and implemented a secure tag-based paper-reviewer matching algorithm to automate the review assignment process

OTHER POSITIONS

- Teaching Assistant – IT207: Applied IT Programming | George Mason University, Fairfax, VA** **Jan 2020 – Present**
 - Designed and graded assignments and exams, held office hours, and helped students understand the core concepts of web programming in PHP
- Technical Head - ACM-DBIT | Don Bosco Institute of Technology (DBIT), Mumbai, India** **Jul 2017 – May 2018**
 - Organized Teknack, a two-day intercollegiate online gaming festival featuring more than 10 games played by over 25000 people
 - Orchestrated and delivered workshops on GitHub, basic web development, Linux CLI to an audience of at least 40 freshmen and juniors

SKILLSETS

Programming Languages: Python, Java, C, C#



Database Systems: MySQL, MongoDB, Oracle

Frameworks: React Native, ReactJS, Angular 8, Django, Swing, Hibernate JPA, Bootstrap, Node.js, Spring Boot

Other: GitHub, SDLC, Docker, Kubernetes, Jenkins, Android, JUnit, Tableau, Linux, REST, Amazon Web Services, GraphQL

Areas: Software Design Patterns, Distributed Systems, Algorithms, Operating Systems, Data Mining, Machine Learning

PROJECTS

- Portfolio Website | Individual**
 - Designed and developed a [portfolio website](#) using **ReactJS**, hosted on GitHub Pages with an auto-deploy setup with a push event trigger
 - Incorporated **XSS input sanitization** using DOMPurify to prevent against cross-site scripting attacks
- wha2do | Team of 2**
 - Built a minimal design to-do list Android app using **React Native** and **Firebase**.
 - Implemented **swipe gestures** to make it easier for the user to mark task status
[Play Store Link](#)
- SpaceTerra | Individual**
 - Utilized **Phaser.io** game engine, **Node.js** and **MongoDB** to host the web application on a PM2 load-balanced Nginx server
 - Played by **over 12,000 players** through the Teknack gaming festival hosted by ACM-DBIT, making it the most successful game of the event
- NumPy for C | Team of 4**
 - Created an **open-source** C library for Vectors, Arrays and Number Systems totaling **96 functions** that were 2x faster than Python equivalents
 - Won 2nd Runner Up at Mumbai Hackathon (2017)
- Student Survey Form | Team of 2**
 - Developed the front-end using **Angular 8** and **deployed RESTful API** for CRUD operations with **Lambda** and **DynamoDB**.
 - Employed Docker and Kubernetes for containerization, **Jenkins** for **continuous integration and deployment** and GitHub for version control
 - Received perfect score (100)
- A Resource Effective Approach for Distributing Machine Learning Models over a Cluster | Team of 3**
 - Devised an **interactive desktop application** to facilitate the **automation** of the **training process distribution** over a local network
 - Maintained accuracy and achieved an overall **10% reduction** in model training time
 - Technology stack: **Electron.js** and **Batch scripting** for developing the application, **TensorFlow** for devising the test models
[YT Demo Link](#)

CERTIFICATIONS

- AWS Certified Solutions Architect – Associate (Amazon Web Services)** **Jun 2020 – Jun 2023**