# **Haramrit Singh Khurana**

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#### EDUCATION

Master of Science, Computer Science | GEORGE MASON UNIVERSITY

Aug 2019 - May 2021

Coursework: Algorithms, Systems Programming, Object Oriented Design, Database Systems, Component-based Software Engineering

Bachelor of Engineering, Computer Engineering | UNIVERSITY OF MUMBAI

Jul 2015 - Jun 2019

1st Runner Up – Best Capstone Project in Department of Computer Engineering; 2nd Runner Up – Mumbai Hackathon (2017)

#### CERTIFICATION

AWS Certified Solutions Architect – Associate (Amazon Web Services)

Jun 2020 - Jun 2023

#### **WORK EXPERIENCE**

## Engineer Sr Analyst, Assistant Vice President - C12 (Citibank NA) | Irving, Texas

Dec 2022 - Present

- Led the Playwright automation project, independently conducting R&D, defining the technical roadmap, and overseeing execution to accelerate implementation. Created and assigned JIRAs to a junior colleague to streamline development. Successfully integrated the test suite into Jenkins for nightly builds, reducing manual testing efforts by 60% per RFT cycle and ensuring reliable regression testing. The Playwright suite also plays a critical role in stabilizing automation as the team transitions from DMA (Microfocus) to Ansible playbooks.
- Spearheaded the Ops Manager Metrics Tab for MongoDB clusters, implementing custom Java Digest Authentication and developing a critical npm package for UI, reducing manual monitoring efforts by 30%.
- Optimized UAT and production deployment by introducing a divide-and-conquer testing strategy and SQL aggregation techniques, ensuring faster releases and database consistency across environments.
- Closed 62+ high-impact JIRAs, showcasing strong problem-solving and full-stack development expertise across Angular and Spring Boot.
- Oversaw onboarding of multiple new colleagues, both senior and junior, ensuring they were set up for their day-to-day work while continuing to meet my own deliverables and action items on time.

#### **Software Engineer (Optimal Satcom Inc)** | Herndon, Virginia

Jun 2021 – Oct 2022

- Led the migration of firm-wide legacy applications to modern web applications utilizing DevExpress React, ASP.NET Core, and MS-SQL, enhancing system efficiency and user experience.
- Designed and implemented three critical components in C#, taking full responsibility for their future enhancements, bug fixes, and resolving critical silent console crashes and security deprecation issues.
- Revamped the database architecture for the enterprise SATCOM capacity management system by creating and updating SQL triggers, queries, stored procedures, and upgrade scripts, ensuring optimal data management and system functionality.
- Developed and enhanced report generation functionality, providing external stakeholders with meaningful insights and pattern decoding, and pioneered the integration of a novel third mode of operation into the company's flagship product, ECM.
- Improved software quality and operational performance by collaborating with support and QA teams on urgent bug fixes, optimizing legacy code to reduce compiler warnings and errors by approximately 70%.

#### Teaching Assistant – IT207: Applied IT Programming (George Mason University) | Fairfax, Virginia

Jan 2020 - May 2021

- Worked as a GTA and Lab Instructor for the course Applied IT Programming (IT 207) at GMU, instructing students about the course work on HTML, CSS, PHP, and MySQL
- Responsible for grading lab assignments, quizzes and assisting 60 students individually with their questions during designated office hours.

  Assisting faculty instructors with a lecture class by managing students in recitation, laboratory, and discussion sessions online and in-person

## SKILLSETS

Programming Languages: Java, C#, Python, C, JavaScript

Database Systems: Oracle-SQL, MSSQL, MySQL, MongoDB

<u>Frameworks:</u> Spring Boot, React, Node.js, DevExpress, React Native, Angular 8, Django, Bootstrap

<u>Other:</u> Git, Jira, TeamCity, Docker, Kubernetes, Jenkins, OpenShift, ServiceNow, JUnit, Linux, REST, Amazon Web Services, GraphQL, Heroku, Electron.js, Batch Scripting, TensorFlow

## PROJECTS

### Portfolio Website | https://haramrit09k.github.io

- Designed and developed a portfolio website using React, 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

#### **SpaceTerra** | https://spaceterra.herokuapp.com

- 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

#### A Resource Effective Approach for Distributing Machine Learning Models over a Cluster | Published in ICAC3 2019 | (YouTube Demo)

- Devised an interactive desktop application to facilitate the automation of the model training process distribution over a local network
- Maintained accuracy and achieved an overall 10% reduction in model training time