

Bhupinder Singh

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EDUCATION

George Mason University

Fairfax, VA

Bachelor of Science in Computer Science

Certifications:

CompTIA Security+ and AWS Cloud Practitioner

EXPERIENCE

Software Engineer — JAVA, SQL, Linux

9/2023 – Present

Deloitte

- **Feature Development:** Develop and optimize high-volume BI reports (**5,000+ monthly runs**) to ensure real-time performance tracking with delivery **33%** ahead of schedule
- **Delivery Leader:** Empowered the development team through **weekly** code reviews, team coaching, version control management, and comprehensive documentation of **20+** deliverables resulting in **100%** on-time delivery

Computer Vision Engineer — Python, Ubuntu

07/2024– Present

George Mason University Volunteering

- **Machine Learning:** Developing and optimizing real-time machine learning models for object detection and path-finding to enable autonomous water vehicle navigation
- **Hardware integration:** Configuring NVIDIA Jetson TX2 with Ubuntu 16.04, JetPack, and ZED camera for real-time image processing

Software Developer — JAVA, Linux, Windows

01/2022 – 09/2023

CGI Federal

- **Defect Resolution:** Implemented swift bug resolution (UI/backend/database) exceeding timelines by **25%**. Led incident analysis to identify and resolve server outages, guaranteeing **100%** system up-time for **120+** internal stakeholders
- **Environment Configuration:** Configured Windows environments, standardized/upgraded dependencies, proactively resolved application defects to facilitate smooth software delivery

PROJECTS

Multilayer Perceptron for MNIST — Python, PyTorch, and sklearn

- Developed a high-accuracy MNIST digit classifier using PyTorch, achieving 97% accuracy and demonstrating proficiency in neural network architecture and training

Bitwiser Quiz App — Android Studio, JAVA

- Created an interactive Android quiz app to solidify understanding of integer representations, featuring dynamic question generation, multiple question formats, and progress tracking for an engaging learning experience.

TECHNICAL SKILLS

Languages: Java, Python, C, Oracle SQL, and HTML/CSS,

Frameworks: React, Scikit-learn, and NLTK

Developer Tools: Linux, Windows, Git, SVN, Eclipse, and Vim