

# SHAMSHER SINGH

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## SOFTWARE DEVELOPER | MACHINE LEARNING ENGINEER

Innovative and driven professional student with 7+ years of educational experience as a Machine Learning Engineer and Software Developer. Designed and developed web application systems using technical design skills, while monitoring outcomes within IT systems as Project Manager. Leverages expertise in collecting and utilizing data to substantially improve website application usability and optimize system functionality.

### CORE COMPETENCIES

- Computer Programming
- Solution Development
- IT Project Management
- Process Efficiency Improvement
- Software Development Life Cycle
- Data Analysis
- Machine Learning
- QA & Testing
- Web Application Design

Technical Acumen: Java -Core JAVA, SERVLETS, JSP | Hibernate | SQL | HTML & CSS | PYTHON with MACHINE LEARNING | Microsoft Office Suite

### ACADEMIC ACCOMPLISHMENTS

**Diploma: Technology Foundations** | Centennial College

**2018**

Relevant Coursework: Engineering Principles & Technical Applications | Occupational Health & Safety | Microcomputer Applications for Technology | Inquiry into Physics | Building Communications Skills | Elementary Mathematics

Sampling of Skills Acquired:

- **Computer Hardware & Networking:** Explored the relationship and function of various technologies including computer hardware, computer operating systems, networking, electronic circuits, measurements in virtual environments, and logic gates and programming.
- **Microcomputer Applications:** Introduced to fundamentals of Office Applications including Microsoft Office suit, Word, Excel and PowerPoint with emphasis on mathematical applications and developing presentations.

**Postgrad Certificate: Project Management in IT** | Seneca College

**2017**

Relevant Coursework: IT Project Management Fundamentals Tools & Techniques | Business Systems Environments | Fundamentals of Systems Development | Project Leadership | Advanced IT Project Management | Contract Law, Ethics and IT Professionalism | Quality Assurance & Testing in IT Projects | Applied IT Project Management

Sampling of Skills Acquired:

- **IT Project Management:** Obtained familiarity with all phases of IT project life cycle and core processes involved in their management including defining scope, project goals, risks, and requirements. Replicated fundamental IT Project Management duties, acquiring necessary skills needed to successfully fulfil obligations.
- **QA & Testing:** Acquired fundamental testing techniques to ensure IT project quality, building in-depth test plans, performing unit testing, regression testing, and acceptance testing, in addition to security and load testing. Explored testing frameworks and methods of coordinating with external testers.

**Bachelor of Technology in Computer Science & Engineering** | BBDNIIT

**2012 - 2016**

Relevant Coursework: Object Oriented Programming | Artificial Intelligence | Data Structures | Software Engineering | Operating Systems | Design and Analysis of Algorithm | Discrete Mathematical Structures | Database Management Systems | Theory of Automata and Formal Languages | Introduction to Microprocessor | Data Compression

Sampling of Skills Acquired:

## ACADEMIC ACCOMPLISHMENTS (CONTINUED)

- **Programming Language:** Organized programs around data fields with unique attributes and behaviour, while identifying all data needed to manipulate system for desired effects.
- **A.I Development:** Explored areas related the artificial intelligence and machine learning, while focusing on design of application systems.
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### Key Projects Completed:

#### **Project Management Assignment (Seneca College)**

*Analysed and developed recommendations as a Project Manager and Data Scientist in a case study focused on addressing various problems within an IT project.*

- Analysed data to pinpoint key issues within each project phase in order to determine necessary process optimizations and mitigate risk.
- Issued solution based in cloud computing to streamline processes by increasing availability of equipment and data while decreasing software and hardware malfunctions. Implemented solution and monitored test timeframe to ensure solution viability.

#### **Voting System Application Design (Bachelor in Computer Science and Technology)**

*Designed and implemented Java-based voter-tracking system aimed at enhancing security by disabling voting duplicates online and tracking data on who is being voted for.*

- Used Java programming language to build multi page website entering data obtained from each drop down menu and text box into mathematical algorithm to eliminate voter duplication and decrease overall voter fraud.
- Designed system to collect data tracking voter preference, view current statistics and help determine winning party prior to official announcement.

## INDEPENDENT PROJECTS

#### **Job Portal Development**

**2019-2020**

*Designed job portal web application using Java. Application allowed for users to both upload and apply for job postings.*

- Implemented functionality for employers to upload and manage job postings while monitoring quantity of users viewing and applying.

## PROFESSIONAL EXPERIENCE

#### **Java Internship | Techno Canada | Toronto, ON**

**2019**

Overview: Developed web applications for image upload as junior software developer, while collaborating with senior management to learn more about application development.

### Key Responsibilities:

- Diligently worked on web application file upload system by breaking down similar application code, rewriting code with Java, and developing upload system for client.
- Designed image upload system for easy accessibility and usage, while linking images to home page with functionality to update file information, view and download, and delete image from system. Created home button within image upload page with link back to home page.
- Collaborated with senior IT Project Manager to clean up Java code within client websites, while obtaining guidance from supervisor for to develop and maintain applications using J2SE, J2EE and Hibernate.