

# Sami Ali Choudhry

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## PROFILE OF SKILLS

- 1+ years of work experience as a Software Developer, with a major focus on software and web development including designing, developing, requirement analysis and work delegation
  - Knowledge of SDLC (Software Development Lifecycle) and Machine Learning
  - Experience in writing Stored Procedures using MS SQL Server
  - Actively participated in extra-curricular activities including Social Events and Volunteer Work
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## TECHNICAL SKILLS

- **Programming Languages:** Python, C#, C, C++, Java, Matlab
  - **Operating Systems:** Linux, Unix, Windows
  - **Web Technologies:** HTML5, CSS, Bootstrap, AJAX, JSON, Web Service, JavaScript, jQuery
  - **Database Systems:** MS-SQL Server, MySQL, SAP HANA
  - **Integrated Development Environment:** Visual Studio and Code Studio, Eclipse, Atom, Anaconda
  - **Web Servers:** Apache Tomcat, IIS
  - **Machine Learning Tools:** Scikit Learn, Weka, Jupyter Notebook
  - **Software Applications:** Microsoft office 365, Microsoft Access, MS Visio
  - **SCM Tool:** TortoiseSVN
  - **Software Engineering Methodologies:** Agile Development (Scrum), MVC, OOP, DevOps
  - **ML Libraries:** Numpy, Scipy, Pandas, Matplotlib, Gensim, NLTK, Seaborn
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## EDUCATION

### Master of Science - Computer Science (Co-op)

September 2019 – Present

University of Windsor, Windsor, Ontario

**Related Coursework:** Pattern Recognition, Advance Algorithms, Topics in AI

### Bachelor of Engineering - Computer Engineering

August 2015 – May 2019

Mumbai University, Mumbai, India (CGPA: - 3.8)

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## WORK EXPERIENCE

### Software Developer

May 2018 – May 2019

SparkT.inc Ltd, Mumbai, India

Technology and Tools: C#, .NET MVC4, Silverlight, CSS, HTML, SQL Server, JavaScript, TortoiseSVN

Project: CVD Algorithm (Industrial Patent) (<https://sami14996.github.io/samichoudhry/>) is a web project on color blind patients which is under **Industrial Patent**.

- Designed, developed, implemented, tested and deployed web projects for many different clients based on requirements
- Communicated with the client, analyzed user requirements and translate client needs into application design
- Processed Live Video Recoloring, delivered solutions and successfully **patented** it.
- Assigned tasks to the team to resolve/address the client's concerns (complete software change).
- Reviewed tasks assigned and conducted team assessments.
- Worked on emerging technologies like SQL Server, C# and reporting tools to witness holistic, fit-for-purpose solution stack for SMBs integrating hardware, network, and software

## ADDITIONAL WORK EXPERIENCE

### Graduate Teaching Assistant

September 2019 – Present

University of Windsor, Windsor, Ontario

Courses: Software Testing, Advanced Web Development

- Facilitate lab sessions to approximately 30 undergraduate students
  - Grade students' assignments, labs and exam papers
  - Assist students during office hours for questions related to assignments, labs, and lectures
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## ACADEMIC PROJECTS

### Predict HER2 Aggressiveness of Cancer (Machine Learning)

September 2019 – December 2019

University of Windsor, Windsor, Ontario

Technology: Python, Scikit Learn, Machine Learning

- Datasets of 64,484 Genes and 892 Patients were used
- Performed Oversampling using SMOTE Algorithm for data balancing
- Feature Classification by incorporating techniques involving SVM, K Nearest Neighbor, Naïve Bayes, and Random Forest, consequently comparing performance metrics

### Twitter Sentiment Analysis (Intro to AI)

September 2019 – December 2019

University of Windsor, Windsor, Ontario

Technology: HTML, CSS, Java Servlets, Scikit Learn, Python, Machine Learning, NLPT, J2EE,

- Developed a natural language processing software which classifies the tweets
- Created the project individually using Python along with HTML, CSS for visualization of data and various Machine Learning techniques to optimize data
- Used the Lucene library for indexing of data and searching the data with keywords, Highlighting, Page Ranking and launched it on Tomcat Server for Java implementation.

### Color Vision Deficiency Software

May 2018 – May 2019

SparkT.inc, Mumbai, India

Technology: C#, ASP .NET, SQL Server, HTML, CSS, Bootstrap, Crystal Report

- Developed the project for color blind patients by building a software for live video recoloring with accuracy and optimization and results as per clients requirement.
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## CERTIFICATIONS

- A++ grade in C programming from Academy for Computer Training
- Credit grade in Python programming with license numbers.

## ACHIEVEMENTS

- Elected as Core and Joint Treasurer for Computer Society of India.
  - Guinness World Record for coding hackathon in Rajasthan, India.
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## VOLUNTEER EXPERIENCE

### Mentor & Academic Support Volunteer

January 2018 – January 2019

Trip Organizer, Mumbai, India

- Conducted a trip of 112 students to North East India
- Simultaneously worked as an Academic Support Volunteer and Finance Volunteer