

KARAN SINGLA

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PROFESSIONAL SUMMARY AND SKILLS

- **2.5+ years of full-time Software Development experience**
- **Languages:** Python, SQL, Java, C#, C++, C, JavaScript
- **Web Development:** Django, Flask, Falcon, React, Bootstrap, HTML, CSS
- **Database:** NoSQL MongoDB, MySQL, MS SQL Server
- **Process and Tools:** Scrum and Agile SDLCs, Git, Azure Devops, Docker, JIRA, TDD, Spark, Visual Studio
- **Strengths:** Full Stack development, REST, data structures, OOP, data science, cloud computing, communication
- Graduate Student Representative for School of Computer Science at University of Windsor

EDUCATION

Master of Applied Computing	University of Windsor, ON, Canada	GPA 90/100	2019-2021
Bachelor of Computer Science	IIIT, India	GPA 79/100	2013-2017

WORK EXPERIENCE

Senior Software Developer at UST Global	Mar 2018-Jul 2019
ICE [Python-Falcon, Azure, MongoDB]: NLP platform for cognitive automation	
<ul style="list-style-type: none">• Implemented RESTful APIs for text mining, named entity recognition, predictive modeling• Responsible for backend development, database design, client management, collaboration with UI teams, CI/CD, unit testing with pytest and code coverage above 85%• Appreciation award for performance and contribution to the team and delivery account	
Software Engineer at Infosys	Jul 2017-Mar 2018
On-premise applications migration to cloud Azure [C#, SQL, Powershell scripting, Azure]	
<ul style="list-style-type: none">• Provided infrastructure, virtualization services on cloud MS Azure• Deployed applications, databases on virtual servers and completed testing after migration	
Software Engineer Student Intern at Infosys	Jan 2017-May 2017
CrypChat [C#, .NET MVC, MS SQL Server]: Chat messenger with end to end encryption	
<ul style="list-style-type: none">• Took ownership of backend development and database management• Worked on encryption algorithms such as RSA, AES, Vignere, Transposition	
Web Developer Intern at Tnine Infotech	Jun 2016-Jul 2016
Developed static responsive web applications as per client requirements	

ACADEMIC PROJECTS

Virtual Assistant with Admin Control [Python-Django, Bootstrap]: Admin controlled chat bot	Oct 2019-Dec 2019
<ul style="list-style-type: none">• Used IBM Watson for named entity recognition to define the intents, entities, dialog flows• Built RESTful APIs to accommodate the admin changes made through the chat	
Recognition of Canadian Postal Codes using Neural Networks[Python, Tensorflow, Jupyter]:	Oct 2019-Dec 2019
<ul style="list-style-type: none">• Used EMNIST-ByClass dataset and built the neural network with Adam optimizer function• Used OpenCV to pre-process, segment user image and identify the multiple characters	
Web Search Engine [Java, Eclipse]: Search engine based on data collected using web crawling	Sep 2019-Nov 2019
<ul style="list-style-type: none">• Implemented inverted index, ranking using Quick-Select, auto-completion using Trie, spell check using Edit-Distance algorithms	
Tic Tac Toe [C]: A multiplayer game based on client-server model using socket programming	Mar 2020-Apr 2020

INDIVIDUAL PROJECTS

Travel Expert [Python-Django, Javascript-React, SQL]: Web app to view, book travel packages	Mar 2020-Apr 2020
<ul style="list-style-type: none">• REST APIs for CRUD operations on shopping cart• React reusable components for listing, cart pages	
Credit card fraud detection, Spam Detection [Python, Jupyter]:	Jan 2020-Feb 2020
<ul style="list-style-type: none">• Used Kaggle credit card fraud and spambase dataset respectively• Used Scikit-learn SVM, Naive Bayes classifiers and got accuracy of 96% and 91% respectively	
Improving Computer Vision accuracy using Neural Networks [Python, Tensorflow, Keras]:	Oct 2019-Dec 2019
<ul style="list-style-type: none">• Used multiple data sources like Fashion dataset, computer generated & real world images• Used CNN filters, pooling to improve accuracy from 87% to 98%	

References available upon request