KARAN SINGLA

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PROFESSIONAL SUMMARY AND SKILLS

- **2.5+ years of full-time Software Development experience**
- **Strengths:** Full Stack development, REST, data structures, OOP, AI, machine learning, interpersonal skills
- **Languages:** Python, SQL, Java, C#, C++, C, JavaScript
- **Web Development:** Django, Flask, Falcon, .NET MVC, Bootstrap, HTML, CSS, React(Beginner)
- **Database:** NoSQL MongoDB, MySQL, MS SQL Server
- **Process and Tools:** Azure, Scrum and Agile, Git, Docker, JIRA, MS Office, Spark, Visual Studio, Postman
- Graduate CS Students Representative, Volunteer for GSS, ISA at the University of Windsor

EDUCATION

Master of Applied Computing	University of Windsor, ON, Canada	**GPA 90/100**	2019-2021
Bachelor of Computer Science	JIIT, 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

- 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]

- 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

- 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 [Python-Django]: Admin controlled chat-bot to help students Oct 2019-Dec 2019

- 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

- 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

- 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

- 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

- 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

- 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