**Rishabh Kukreja**

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**LinkedIn Profile**: [linkedin.com/in/rishabhkukreja/](https://www.linkedin.com/in/rishabhkukreja/) **||** **Github Profile**: github.com/rishabh-kukreja

**Portfolio:** https://rishabh-kukreja.github.io/

**EDUCATION**

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| **Degree** | **University** | **Duration** |
| **Master of Computer Science**  Major: Computer Science | **University of Ottawa**  Ottawa, ON, Canada  GPA = 9.4/10 | 2018 – 2020 |
| **Bachelor of Technology**  Major: Computer Science | **Guru Gobind Singh Indraprastha University**  New Delhi, India  Grade - A | 2014 - 2018 |

**WORK EXPERIENCE**

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| **University of Ottawa**  Ottawa, Canada  Position: Teaching Assistant  (January 2019 – April 2020) | * Taught Object oriented Java Programming to 1st year students * Lecturing, grading, proctoring, Aiding Students in Problem Solving and program debugging * Taught Data structures in Java |
| **Electronic Arts Inc. (EA)**  Edmonton, Canada  Position: Software Developer Quality Verification  (September 2019 – December 2019) | * Research work to understand the codebase, requirements and the problem of predicting bugs * Extracting bug-fixing commits data to generate a model to find out the bug-inducing commits * Backtracking the bug life cycle to find out the root cause. Used the Elasticsearch to improve the quality of the code by giving recommendations |
| **Canadian Internet Registration Authority (CIRA)**  Ottawa, Canada  Position: Data Scientist  (May 2019 – September 2019) | * Successfully changed the database and data warehouse architecture and migrate to the cloud. Built the Data Lake in AWS * Used Oracle SQL Developer for database management on-premise data. Contributing ideas as a member of an agile development team |
| **Technical University of Sofia**  Sofia, Bulgaria  Position: Software Developer  (June 2016 – July 2016) | * Managed and designed the augmented models, Developed C# Scripts. Learned and explored Unity Environment * Worked on Android Development, Built and deployed Pokémon Wiki Augmented Reality Android App |

**SKILLS**

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| **Technical Skills** | * Programming Language: C++, Java, Python, R, C# * Machine Learning: Pandas, NumPy, Matplotlib, SciPy, Scikit-Learn, Seaborn, Pickle, TensorFlow, Keras * Web Technologies: JavaScript, HTML5, CSS3, Django, Restful Web Services, Ajax, JQuery, NodeJS, ExpressJS, ReactJS, NPM, XML * Testing – JUnit, Selenium, Cucumber, Google Test, TDD * Other: Apache Spark, Hadoop, PyCharm, Jupyter, Postman, Unity, Unreal Engine, GIT, Eclipse, Oracle SQL Developer, MySQL, MongoDB, Pentaho Data Integration, Qlik, Tableau, Terraform, Elasticsearch, MS Office, SCRUM, Agile Methodology, JIRA, Confluence, Perforce, AWS EC2, Athena, S3 |
| **Communication Skills** | * Effectively wrote several project reports and documents using various software such as Microsoft Word and Microsoft Excel to format documents, spreadsheets, tables * Gave presentations to various stakeholders including the head members of Tech Council of Electronic Arts * Presented concepts and reports to groups of 45-50+ peers using Microsoft PowerPoint to organize the information * Gave Lecture to a class of 100+ students |

**PROJECTS**

1. **Object Detection for Autonomous Vehicles –** Performed traffic-sign detection using Faster R-CNN and Yolov3
2. **Adventure Exploring FPS –** Developed an exploring first person shoot game using C++ and Unreal engine
3. **Sorting Visualizer –** Visualize the sorting algorithms using pygame library in python (Github)
4. **Tetris game –** A vanilla javascript and HTML application game along with CSS styling (Github)
5. **Candy Crush -**  An interactive web application game using JavaScript (Github)
6. **Weather Widget –** A web based application using React and JavaScript that displays the current weather report of the your city (Github)
7. **CRUD Operations REST API –** Developed a RESTful API for simple CRUD operations using Node, Express, MongoDb and JavaScript (Github)
8. **Predicting the causalities in a terrorist attack** using various Machine Learning models (Github)
9. **Stock market prediction** and classification using machine learning and data mining concepts (Github)
10. **Sentiment Analysis on Twitter Posts using Machine Learning** - Extracting the data from twitter and using the methods of tokenization and bag of words, determining the sentiment of the people
11. **Malware Detection using Machine Learning** - Extracting the malware from open source and using feature extraction to create the feature set and then identifying and classifying different files as virus
12. **Spam Classification of Emails** - Classifying the given set of emails, using the bag of words and natural language processing to determine whether a mail is a spam or ham
13. **Augmented Reality Game and Apps Development** - Using Unity3D, Vuforia, and Apple ARKit to develop many games such as Zombie Shooter, AR Pokémon Wikipedia, and AR Solar System
14. **Analyzed Technical Debt** in various python and java projects using SonarQube and TeamScale – Figured out the causes associated with technical debt and their various dimensions in python and java projects

**ACHIEVMENTS & PARTICIPATIONS**

* Won 1st prize in CANDEV in Canadian Space Agency Department among 10 teams
* Won 2nd prize in CANDEV among 60 teams organized by the Government of Canada
* Got 2nd position in my class during my undergrad 2nd & 3rd year
* Won 3rd prize in technical fest in my undergrad 4th year
* Won dance competition in the college fest among 30 contestants

**VOLUNTEER EXPERIENCE/EXTRA-CURRICULAR ACTIVITIES**

* Participated in CANDEV challenge organized by the Government of Canada
* Attended and volunteered workshops on cybersecurity
* Organized Annual college fest “Emblazon”
* Coordinated the Minute-to-win it event at the technical fest
* Volunteer work as an official photographer of the technical event in my undergrad studies

**CERTIFICATIONS**

* Building RESTful APIs with Node.js and Express (LinkedIn)
* Express Essential Training (LinkedIn)
* Node.js Essential Training (LinkedIn)
* React.js Essential Training (LinkedIn)
* Learning npm the Node Package Manager (LinkedIn)