

## Rishabh Kukreja

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Portfolio: <https://rishabh-kukreja.github.io/>

### EDUCATION

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

### WORK EXPERIENCE

<b>Electronic Arts Inc. (EA)</b> Edmonton, Canada Position: Software Developer, Quality Verification (September 2019 – December 2019)	<ul style="list-style-type: none"><li>Extracting bug-fixing C++ code commit data to generate a model to find out the bug-inducing commits</li><li>Created AST, tokens using python pygments in Pycharm</li><li>Used python's libraries pickle, pandas, numpy, Scikit-learn to manipulate and prepare the data</li><li>Backtracking the bug life cycle to find out the root cause. Used the Elasticsearch to improve the quality of the code by giving recommendations</li></ul>
<b>Canadian Internet Registration Authority (CIRA)</b> Ottawa, Canada Position: Data Scientist (May 2019 – September 2019)	<ul style="list-style-type: none"><li>Successfully changed the database and data warehouse architecture and migrate to the cloud. Built the Data Lake in AWS</li><li>Used PDI for creating data pipelines and for ETL processes.</li><li>Used Oracle SQL Developer for database management on-premise data. Data Visualization using QlikSense.</li><li>Used Terraform and bash scripting to automate the process.</li></ul>
<b>University of Ottawa</b> Ottawa, Canada Position: Teaching Assistant (January 2019 – April 2020)	<ul style="list-style-type: none"><li>Taught Object oriented Java Programming to 1<sup>st</sup> year students</li><li>Lecturing, grading, proctoring, Aiding Students in Problem Solving and program debugging, Taught Data structures in Java</li></ul>
<b>BuyUCoin</b> New Delhi, India Position: Software Developer (April 2017 – August 2017)	<ul style="list-style-type: none"><li>Developed the front-end of the web application using JavaScript, HTML and CSS. API testing using Postman.</li><li>Used Node.js as the run time environment with React as the framework. Took care of the security and the look of the website.</li><li>Worked in an agile environment.</li></ul>
<b>Technical University of Sofia</b> Sofia, Bulgaria Position: Software Developer (June 2016 – July 2016)	<ul style="list-style-type: none"><li>Led and managed the team of 4, Designed the augmented models, Developed C# Scripts. Learned and explored Unity Environment</li><li>Worked on Android Development, Built and deployed Pokémon Wiki Augmented Reality Android App</li></ul>

### SKILLS

<b>Technical Skills</b>	<ul style="list-style-type: none"><li>Programming Language: C++, Java, Python, R, C#</li><li>Machine Learning: Pandas, NumPy, Matplotlib, SciPy, Scikit-Learn, Seaborn, Pickle, TensorFlow, Keras</li><li>Web Technologies: JavaScript, HTML5, CSS3, Django, Restful Web Services, Ajax, JQuery, NodeJS, ExpressJS, ReactJS, NPM, XML, PHP, Spring MVC, Spring Boot</li><li>Testing – JUnit, Selenium, Cucumber, Google Test, TDD</li><li>Other: C++ STL, Java Swings, Tomcat, Apache Spark, Hadoop, PyCharm, Jupyter, Docker, Ansible, 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, Linux, Jenkins, CI/CD, Terraform</li></ul>
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## 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. Testing of the API was carried out with Postman. ([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

## CERTIFICATIONS

- Building RESTful APIs with Node.js and Express ([LinkedIn](#))
- Mastering Microservices with Java ([LinkedIn](#))
- Express Essential Training ([LinkedIn](#))
- Node.js Essential Training ([LinkedIn](#))
- React.js Essential Training ([LinkedIn](#))
- Learning npm the Node Package Manager ([LinkedIn](#))
- Learning Docker ([LinkedIn](#))

## ACHIEVEMENTS & 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