KANIKA RANA

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Education:

Northeastern University, Boston, MA   GPA:4.0   Sept. 2018 – Dec 2020
Khoury College of Computer Sciences   Available From: Jan 2021
Candidate for a Master of Science in Computer Science
Related Courses: Algorithms, Advanced Software Development, Programming Design Paradigm, Web Development, Large Scale Parallel Data Processing

Jaypee University of Information Technology, India   GPA: 8.5   May 2014
Bachelor of Technology in Electronics and Communications Engineering
Related Courses: Object Oriented Programming, C++ and Data Architecture, Data Structures

Technical Skills:

Programming Languages:	Java, Python, Go, JavaScript, R, C++, Apex, Visualforce
Cloud:	Openshift, Kubernetes, AWS, Heroku, Google Cloud, Salesforce.com, DockerHub, Quay
Big Data:	Apache Spark, AWS EMR, Hadoop, MapReduce
Machine Learning:	Regressions, Clustering, Classification, Neural Network, CNN, Reinforcement Learning
Statistics Stack:	Numpy, Pandas, Keras, Tensorflow, scikit learn, Scipy, matplotlib, RShiny, dplyr, plotly
Web and Databases:	MySQL, SQL, MongoDB, Nodejs, REST API, Spring-boot, jQuery, Angular, HTML
Tools and Frameworks:	Eclipse, IntelliJ, Jupyter Notebook, PyCharm, VSCode, WebStorm, MATLAB, Maven, Gradle, Git, JIRA, Linux, S3, EMR

Work Experience:

Northeastern University, Boston, USA - *Graduate Teaching Assistant for Software Dev and OOD*   Sep 2018 – Present
- Mentored 100+ students, conducted code review sessions and code walks.
- Helped students become better developers by following design principles and develop application in their choice of language.

Red Hat Inc, Westford, MA – *Software Developer Intern*   Jun 2020 – Aug 2020
- Contributed to GitOps infrastructure following the agile methodology with test driven development
- Developed new cobra commands for the opiniated CLI tool – Openshift Do (odo)- and explored adding unprivileged builds using kaniko and buildah, PR submitted to Upstream - https://git.io/JURcW
- Created an opensource library in Go for converting devfile to Kubernetes objects, https://git.io/JURcB
- Published technical blog on container build using kaniko build strategy on Red Hat forum, draft available here.

Natixis Investment Managers. Boston, MA, USA – *Quantitative Developer Co-op*   Jun 2019 – Dec 2019
- Created & validated statistical numerical metrics for portfolio evaluation in Java 8
- Developed a webservice using spring-boot for Portfolio evaluation metrics and exposed using REST API
- Built an interactive dashboard to display the calculations from the portfolio evaluation metric web service in R, using RShiny.

Accenture Solutions Pvt Ltd, Pune, India – *Senior Software Developer*   Aug 2014 – Jul 2018
- Incorporated GDPR changes in customer email notifications and added content personalization
- Designed and developed a social community of doctors to interact within their closed network in salesforce using Apex (Java based language), Javascript, Visualforce, CSS
- Remodeled deal registration process of partner module with custom approval and validation framework

Relevant Projects:

ClimateTree: Application hosted on Azure displaying climate change stories worldwide https://www.climatetree.wiki/ https://git.io/JURCI
- Built stories service, handles creating, modifying, deleting, ranking, searching, filtering and showing trending stories on the website
- Composed a *microservice architecture* for the project and used express gateway to communicate between services using REST API
- Tech Stack – Azure, Express Gateway, React, Springboot, Java, PostgresSQl, Mongodb, ElasticSearch, Nodejs, MongoDB, GeoServer
- Operated as scrum master to lead project to completion

GifArt – social network website for gifs using MEAN stack - MongoDb, Express, Angular, Nodejs, Giphy API
- Social network for gifs – Create, Read, Update and Delete posts (gif) with comment functionality and admin portal.
- Designed and implemented user service which oversaw signup via multiple channels and authenticates using Jason Web Token (JWT)

StockMock – MVC Java application to learn stock investment
- Application featured scheduling to buy periodically and get real-time investment value by fetching stock prices from external API
- Followed SOLID principles, devised and constructed interfaces, and improved flexibility by using Command, Adapter, and Builder pattern

Grace – positive affirmations generator on google voice assistant
- Won prize for MLH: Best usage of Google Cloud Platform at TechTogether Boston,2019
- Personalized responses of google voice assistant depending on the personality type using React, Heroku, Firebase, Dialog Flow, Google NLP API, Google Cloud Platform, Python, Flask.