KRISHNA AGARWAL

EDUCATION

VELLORE INSTITUTE OF TECHNOLOGY
Computer science and Engineering
CGPA: 8.47

SETH M. R. JAIPURIA SCHOOL
Intermediate
Percentage: 91.2%

RESPONSIBILITIES

Linux Club: Batch Coordinator

Data Analysis: Member

CodeChef Chapter: Co-Founder

CONTACT

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EXPERIENCE

Optum (United Health Group) | Software Developer | July 2019 - Present | Hyderabad, India

- Designed and developed automated migrator and emulator for IBM DataStage ETL jobs using PySpark, Apache Ignite, and Apache Airflow with a cost-saving potential of $20M.
- Automated the entire QA activity for data pipeline migration project with data comparison and validation engine developed using Python, Apache Airflow, and PostgreSQL, earlier being handled by a big QA team manually.
- Conducted Python training sessions for ETL Developers, DBAs, and Java Developers.

Shantou University | Research Intern | March 2019 - April 2019 | Shantou, China

- Developed and coded a Geospatial-based Encryption Algorithm in Python and then in C that could get better performance than DES and AES Algorithms.

Factly | Intern | October 2018 - March 2019 | Hyderabad, India

- Created data acquisition pipeline and visualization charts of petrol, diesel and crude prices in India using Python and Chart.js.
- Worked on Project Dega - it's a platform that helps journalists and bloggers to stand up against Fake news. Tech Stack - Nuxt.js & Bulma

Optum (United Health Group) | Intern | May 2018 - July 2018 | Hyderabad, India

- Designed and deployed a monitoring and alerting dashboard for developers, managers, and leadership for Optum DataLake with NodeJs, Angular and Java.

PROJECTS

Prahaar (Flutter) (2020)
After the announcement from the Govt. of India on the ban of certain foreign applications, developed an application that would search for all the apps listed by the Govt. and allowed the user to uninstall them from their device.

Nithyam (Python OpenCV, Resnet, Angular, Flask) (2018)
Prototyped and developed a dashboard and system for the Tamil Nadu e-Governance Agency for real-time attendance of students in Govt. schools using Facial Recognition on low-end systems which were using only CPU.

Teeka (Android, PHP, NodeJs, HTML, CSS, Tableau) (2018)
Developed as part of #OpenGovDataHack, a comprehensive healthcare ecosystem for child vaccination and maternity care. Enabled connectivity between PHCs and the public and encouraging institutionalized births. Targeted to significantly reduce IMR and MMR in India. Winner of a cash prize of ₹2,00,000 from Ravishankar Prasad, Minister of Electronics and IT, Govt. of India.

Health Checker (Python, SQL, Docker, Selenium, Scrapping) (2018)
Health Checker is a website that shows a list of symptoms and on the basis of the symptom the medical conditions that are possible. It can scrape the web and show the treatment for a particular medical condition and also the contact details of the nearest doctors based on the user's location. On being provided a text with recognizable symptoms it can identify the disease of the patient and suggest the necessary treatment. The code uses a couple of APIs from ApiMedic and BetterDoctor.

PIMA Indian Diabetes Dataset (Python) (2017)
Explored, analyzed the Pima Indians Diabetes Dataset, and applied Machine Learning techniques in predicting if a patient is suffering from diabetes or not.

ACHIEVEMENTS

- Sustaining Edge Award - Q4 2019, Optum
- First Runners up, TLCP TDP Mentorship Program - Q3 2020, Optum
- Team Excellence Award - Q4 2020, Optum
- Best Product Award 2019 - Vellore Institute of Technology
- National Winner #OpenGovDataHack 2018 - Ministry of Electronics and IT, Govt. of India

SKILLS

Dev Ops - Docker, Kubernetes, Jenkins | Big Data - PySpark/Spark | Machine Learning | Cloud Computing | Python | Java | Angular | Nuxt | Node | MongoDB | Cassandra | SQL | Hbase | Hive | Apache - Airflow | Apache - Ignite