

KAMALA KRISHNAN

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EDUCATION

University at Buffalo, The State University of New York

Buffalo, USA

Masters in Robotics

Aug '22 - Present

Coursework: Analysis of Algorithms, Machine Learning, Computer Vision and Image Processing, Robotics 1

Anna University

Chennai, India

Bachelor of Engineering in Computer Science and Engineering

CGPA: 8.78/10

Coursework: Operating Systems, Data Structures, Computer Networks, Database Management Systems

Aug '15 - May '19

SKILLS

Languages: Python | C++ | C | JavaScript | HTML/CSS

ML/Robotics: ROS | TensorFlow | MatLab | PyTorch | scikit-learn

Data Science: Pandas | NumPy | Matplotlib | Flask | Seaborn

Cloud: Pega v6.x, v7.x, 8.x

Databases: MySQL | SQL | MongoDB | Docker

Other Software: MS Excel, Jupyter Notebook, Jira, Rally

EXPERIENCE

TTEC - [\[ttec.com\]](http://ttec.com)

Chennai, India

System Software Associate Programmer

May '20 - May '22

- Worked with the JP Morgan & Chase development team and performed root cause analysis and fixed issues occurred during application migration.
- Worked with the production support team for MunichRE and UnitedHealth Group clients in fixing critical and major defects raised during UAT and postproduction phase.
- Developed a Covid Vaccination Application for TTEC which keeps track of Contact, Dosage information, Symptoms and Post Vaccination documentation process.
- Designed and built a web chat bot for an online delivery service by integrating Google DialogFlow CS with Pega.

Software Development Intern

Dec '19 - Apr 20

- Worked in the development of both Canada and the US application; A reinsurance application which provides risk solutions.
- Worked on multiple user stories and debugged several issues and maintained the quality of code.
- Collaborated remotely with Business Analysts and Project Manager in the US to understand and gather the business requirements.

PROJECTS

Python Deep Learning based Face Detection, Face Recognition, Emotion, Gender and Age Classification

Jul '22

Python Deep Learning based Face Detection, Face Recognition, Emotion, Gender and Age Classification using all popular models including Haar Cascade, HOG, SSD, MMOD, MTCNN, EigenFace, FisherFace, VGGFace, FaceNet, OpenFace, DeepFace.

Python based Tic-Tac-Toe Game

May '22

An interactive python-based game which helps the players add X's and O's which eventually generates the final scores both players on the completion of the game.

Chat bot in Python using NLTK

Nov '20

Created a basic chatbot using python in jupyter notebook. This chatbot interacts with the user using the hardcoded inputs and Outputs which are fed into the python code.

Care - Android Application Providing Volunteering Services to Non-Profit Organizations

(Android Eclipse, NetBeans, MySQL, SQLyog)

Jan '19

The application provides an effective solution to these problems. It is an easy-to-use application that helps the NGOs to achieve their mission and help the compassionate people rendering service to the society.

RESEARCH PUBLICATIONS

IOT-ENABLED INFRASTRUCTURE PRIVACY PRESERVATION IN BIG DATA

European Journal of Molecular & Clinical Medicine, 2021, Volume 8, Issue 2, Pages 724-731

[\[link\]](#)

This work aims to enhance the security and privacy of IoT communications among big data through the implementation of server privacy and the development of unique signatures using device attributes.

ENHANCING CLOUD SECURITY THROUGH EFFICIENT FRAGMENT BASED ENCRYPTION

International Journal of Pure and Applied Mathematics, Volume 118, No 18, 2425-2436, Special issue, 2018

[\[link\]](#)

This paper, targets to handle issues that the user encounters when using cloud computing services. The first one is about hacking threat on the cloud whereas other one is the infeasibility of encrypting entire data without considering its confidentiality degree.

REWARDS AND RECOGNITION

Best Developer Award [\[link\]](#)

Jan '22

Best Developer Award [\[link\]](#)

Feb '21

Appreciation award from the team of JP Morgan & Chase for being a key contributor for the successful development and deployment of the migration of their application.

Upcoming Star Award [\[link\]](#)

Jan '21

Appreciation award for the best project produced during internship at TTEC, India.