

Harikrishna Thoka

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EDUCATION

MSc Advanced Computer Science, University of Liverpool, England

October 2020-present

Masters in Advanced Computer Science

Relevant Courses: Advanced Algorithm Techniques, Machine learning, Knowledge representation in AI, Neural Networks, Network security

Jawaharlal Nehru Technological University Kakinada, India

September 2013 – May 2017

Bachelor's in Computer Science and Engineering

Relevant Courses: Data Structures, Analysis and Design of Algorithms, Database Management Systems, Operating Systems, Object Oriented Programming, Computer Architecture.

CAREER OBJECTIVE

As a naturally gifted individual for learning new things along with creative perception towards the world, I would want to work for an organization where my knowledge, skillset and experience are used rightly.

SKILL SETS

Programming Languages & Web Technologies: Java, Python, JavaScript, HTML, CSS, RESTful web services, React.js, Redux

Databases: MySQL, Oracle, MongoDB

Version Control & Frameworks: GitHub, Selenium, Django, TensorFlow, Django Rest Framework

Design Principles & SDLC: ER Diagrams, UML Diagrams, Agile

PROFESSIONAL EXPERIENCE

September 2021- March 2022

Electrical Cooling Solutions UK

Full Stack Developer

I am currently working for an Engineering consultancy based in Nottingham as a full stack developer building, designing and deploying a web based simulation software with ReactJS, Redux on the front end and Django Rest framework on the backend along with AWS. I also use MUI for the UX design of the application along with various other plugins.

Hexsor Scientific UK

April 2021-August 2021

Software Development Engineer, Part time

As a part time developer who is responsible for building a beautiful Realtime dashboard which reads the data from the backend Rest API and provide data visualization for the users. I have made use of JavaScript plugins like ChartJS and have implemented ORM features using Flask for data manipulation. Being a full-time student, I have learnt various real time lessons from the Tech Lead after committing various mistakes.

Medication Management Solutions Ltd, Liverpool

March 2021-April 2021

Machine Learning Specialist

I worked on a temporary project which is based on Image classification and identification by utilizing some of the Computer Vision techniques. I have implemented some of the Machine learning algorithms for image classification from the scratch using TensorFlow, Karas and OpenCV.

Liverbots , University of Liverpool

October 2020-March 2021

Machine Learning Engineer

Worked as a Machine learning researcher with the university funded team namely "Liverbots" contending for the RoboMaster 2021 challenge which was held in Shenzhen, China. I am specifically designing and modeling an agent which works using the concept of Deep Reinforcement Learning with the help of frameworks like TensorFlow Keras, ROS Kinetic.

Accenture Solutions Pvt Ltd, India

January 2018- March 2020

Application Development Analyst

Environment: ReactJS, Redux, Material UI, Django Rest Framework, AWS, PostgreSQL

- Worked as a backend Java developer for Accenture.
- Built an internal dashboard that displays important metrics for stakeholders and created reusable components using React.
- Wrote bug free code using Flow JS as a static type checker and added unit test cases using Jest.
- Implemented responsive web pages to work with all screen sizes.
- Designed API contracts, complex data models and implemented JPA data sources to interact with Postgres.
- Created features for backend microservices and made REST exchange API calls between these microservices to fetch statistics of important components.

TEACHING EXPERIENCE

Graduate Teaching Assistant, University of Liverpool

October 2020-present

Modules Taught

Object Oriented programming using Java under Dr.Patrick Totzke
Application Development using Swift under Dr.Phil Jimmieson
Advanced Computer Systems under Dr.Stuart Thomason
Database Management Systems under Dr.Veeriah Duggineni

RESEARCH EXPERIENCE

Deep Reinforcement Learning -An overview

A clear analysis of an upcoming concept in the field of Machine learning and Robotics called DRL and its applications. Majorly, my research focused on some of the world class applications developed by Deep Mind alongside model free algorithms and architecture of a neural network . I have submitted a research proposal to Dr. Othon Michail , my supervisor for the module “Research Methods in Computer Science”

Introduction to Advanced Persistent Threats

Being driven with a thrive towards the field of network security, I have done significant research on the new kind of threats which have been troublesome to most of the organizations. I have received very positive feedback from Dr. Jeffrey Ray based on my research values.

Adaptive privacy policy Algorithm for Image Classification

With a significant increase in the world of web we see a lot of images being shared socially, I worked with a team during my undergraduate studies and collectively researched about how security can be provided to the data being shared online some of the classical algorithms.

ACADEMIC PROJECTS

1. Privacy Policy Inference of User-Uploaded Images on content sharing sites

- Developed a standalone application in Java which provides user more privacy in terms of sharing content online, toward addressing this need, we propose an Adaptive Privacy Policy Prediction (A3P) system to help users compose privacy settings for their images.

2. Book X Change

- Built a book rental app that will primarily run on the Android Operating System that allows students to rent out their books to collegemates for a while, albeit with a small cost using SQLite, FCM, XML, JAVA.

3. Food estimator at events

- Created a single page web application that allowed the users to calculate the amount of food required based on the guests by providing more accurate results.
- Implemented the feature of notifying nearby orphanages and social service centers for the collection of extra food if any, using technology stack such as HTML, CSS, Python,MYSQL.

CERTIFICATION

1. Microsoft Technology Associate

- The **Microsoft Technology Associate** (MTA) certification is an entry-level credential that validates fundamental technology skills and knowledge among students and job-seekers who are pursuing a career in technology.

2. Learn from Home (LFH) at TechMahindra, India

- The LFH program is designed to provide the necessary courses for knowledge enhancement. It comprises of:
 - 6 self-learning courses with voice over
 - Course assignments
 - Practice test for each course for assessing knowledge gained
 - Periodic Q&A sessions with TechM faculty members

3. Machine Learning beginner to expert powered by Udemy

- Having a serious passion towards future technologies, I was driven to complete the certification provided by one of the leading online learning platform Udemy

4. Green Field Trainee (GFT) at Accenture, India

- GFT is basically a 4-6 weeks training program where IT professionals from Accenture teach some new technologies like SAP, Selenium, Advanced Java etc. to the freshly recruited engineers.

