Vijay K V Ganaraju

[redacted] · vijaykvganaraju.com[1] · [redacted] · LinkedIn: https://www.linkedin.com/in/vijaykvganaraju[1]

Words with superscript [1] are hyperlinks. Click on the words for more information.

Education

University of Dayton, *Dayton, OH* — *Graduation expected in May 2022*

MASTER OF SCIENCE IN COMPUTER SCIENCE · GPA: **4**

Jawaharlal Nehru Technological University, *Kakinada, AP, India* — *Class of 2019*

BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING · PERCENTAGE: **75.67 %** / 100 (DISTINCTION)

Experience

University of Dayton, *Dayton, OH*

TEACHING ASSISTANT — *January – December 2021*

Teaching assistant and Grader for CPS 530 Algorithm Design course under Dr. Cemil Kirbas with 350+ students for two semesters.

Mi2 Business Solutions Ltd. *Hyderabad, TN, India*

WEB DEVELOPMENT INTERN — *May – July 2018*

Developed Naukrama.com, a web platform for learners and educators to post articles, take tests and, create and join various communities targeted towards college students using Angular 5, Node 8.0 and Microsoft SQL.

Projects

Real-Time ASL Alphabet Detection (Git[1], Video Demo[1])

MODEL DEVELOPER — *January 2022*

A Deep Learning model used to detect and display ASL alphabet, live feed from webcam using ResNet-100 with TensorFlow and OpenCV.

AI-Powered History Teller iOS app (App Git[1], Video Demo[1], Presentation[1], Model[1])

MODEL & APP DEVELOPER — *November - December 2021*

An iOS app that uses Efficient-Net v4 to detect the statue (around University of Dayton) and play a short historical embedded video about it within couple of seconds on the screen with no hassle, by just pointing the camera at it using TensorFlow, Unity 2019 and XCode.

Generative Adversarial Network (GAN) for University Statues (Git[1])

MODEL DEVELOPER — *October 2021*

A Generative Adversarial Network (GAN) to add colors to the outlined images of the statues and sculptures around University of Dayton.

Birds Classification and Visualization using Tensorboard (Git[1])

MODEL DEVELOPER — *August 2021*

A detection and classification model using CNN with TensorFlow for 10 classes and visualizes the 10-dimensional data using Tensorboard.

Real-Time Object Detection (Git[1])

APPLICATION DEVELOPER — *February – April 2019*

An R-CNN deep learning application using YOLO algorithm to detect objects using Python and OpenCV.

Group and Personal Messaging App[1] (Git[1])

APPLICATION DEVELOPER — *June – July 2021*

A Real time Web chat application using Socket.io hosted on Microsoft Azure and Heroku as two different microservices, with database hosted on MongoDB and is connected using RESTful services.

My Personal Website[1] (Git[1])

APPLICATION DEVELOPER — *April – May 2020*

A website to showcase my portfolio, interests and offer my opinions as blogs. It is developed using JavaScript, Node.js, MongoDB, ejs, HTML, CSS adhering to MVC architecture and the UI with accessibility features (Can be navigated intuitively just with a keyboard).

Automatic Resumé Generator (Git[1])

APPLICATION DEVELOPER — *December 2018 – February 2019*

A web service that generates a Resumé for you upon provided information using Angular 6, Node.js and MongoDB.

Skills

Concepts: Neural Networks, CNNs, GANs, Small-scale Mobile Robots, Front End Frameworks, NoSQL Databases, Microservices, REST APIs, Algorithm Design, Graph Algorithms.

Languages: Python, MATLAB, Octave, C++.

Web Technologies: HTML, CSS, JavaScript, Angular, Node.js, Heroku, Microsoft Azure.

Databases: Oracle SQL, MongoDB.

OSes: Linux-based OS (Debian and Fedora), Windows.

Achievements

Qualified in TCS Code Vita 7(2018) with 498th rank out of 100,000 participants and received a full-time job offer from TCS Digital.

Chair of IEEE Student Branch, 2018.

Received “Best Student Of 2015-2019” award from the Chairman of the college for my contribution in Leadership roles across various clubs and committees and maintaining my distinction in the GPA.

Assembled a series of invited talks with renowned scholars on “*5G Communication*”, “*Women in Engineering*”, “*Careers in Technology*”, “*Leadership skills in surviving and thriving in modern times*" and “*RF Radiation Hazards and its Impact on Humans*" on behalf of IEEE (as Student Chair).