

# Vijay k v Ganaraju

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Words with superscript <sup>1</sup> are hyperlinks. Click on the words with <sup>1</sup> for more information.

## Education

**University of Dayton, Dayton, OH**

MASTER OF SCIENCE IN COMPUTER SCIENCE

Graduation expected in May 2022

GPA: 4

- Teaching assistant and Grader for CPS 530 Algorithm Design course under Dr. Cemil Kirbas with 350+ students for three semesters.
- Developed a program for Stable-Matching Algorithm to create and check the matching from the user input or from random preferences.

**Jawaharlal Nehru Technological University, Kakinada, AP, India**

BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING

Class of 2019

PERCENTAGE: **75.67 %** / 100 (DISTINCTION)

- 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.

## Experience

**Mi2 Business Solutions Ltd. Hyderabad, India** | WEB DEVELOPMENT INTERN

May – July 2018

- Developed Naukrama.com, a web platform for college students to post articles, take tests and create and join various communities.
- Six colleges agreed to embed Naukrama.com to their everyday activities for conducting tests and more.
- Frontend was developed as a Single-Page application using Angular 5.
- Created REST APIs using Node 8.0 with Express.js and the database using Microsoft SQL Server.

Certificate<sup>1</sup>

**Pantech ProEd Private Ltd., Hyderabad, India** | MACHINE LEARNING INTERN

August 2017 – November 2017

- Developed an Autonomous Mini Rover with Reinforcement Learning which can reach destination from source avoiding all the obstacles.
- Solely developed Motion Planning, Point-to-Point Reachability and Q Learning Algorithms using MATLAB.
- Designed the above algorithms for Two Wheeled Robot following Dubin's Path.

Certificate<sup>1</sup>, Git<sup>1</sup>

**Money-Wizards, Singapore** | CAMPUS ENTREPRENEUR

January – February 2018

- Successfully rolled out a national level event called the Youth Money Olympiad in my college in coordination with Money-Wizards, Singapore.
- Encouraged STEM students to learn various aspects of financial literacy by providing them relevant resources.

## Projects

**AI-Powered History Teller iOS app** | MODEL & APP DEVELOPER (App Git<sup>1</sup>, Video Demo<sup>1</sup>, Presentation<sup>1</sup>, Model<sup>1</sup>)

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, TensorFlow Lite, Unity 2019 and XCode.

**Real-Time ASL Alphabet Detection** | MODEL DEVELOPER (Git<sup>1</sup>, Video Demo<sup>1</sup>)

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

**Generative Adversarial Network (GAN) for University Statues** | MODEL DEVELOPER (Git<sup>1</sup>)

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

**Real-Time Object Detection** | APPLICATION DEVELOPER (Git<sup>1</sup>)

A deep learning SSD application using YOLOv3 algorithm to detect objects using Python and OpenCV.

**Group and Personal Messaging Web App<sup>1</sup>** | APPLICATION DEVELOPER (Git<sup>1</sup>)

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<sup>1</sup>** | APPLICATION DEVELOPER (Git<sup>1</sup>)

A website to showcase my portfolio, interests and offer my opinions as blogs. It is developed adhering to MVC architecture and the UI with accessibility features using JavaScript, Node.js, Express.js, MongoDB, ejs, HTML, CSS.

**Automatic Resumé Generator** | APPLICATION DEVELOPER (Git<sup>1</sup>)

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/Frameworks:** Python, MATLAB, Octave, C++, HTML, CSS, JavaScript, Angular, Node.js.

**Platforms/Tools:** Oracle SQL, MongoDB, Heroku, Microsoft Azure, Google Shell, Linux-based OSes (Debian and Fedora).