Vijay K V Ganaraju

vijaykvganaraju.com[1] · LinkedIn & GitHub: vijaykvganaraju

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

Education

University of Dayton, *Dayton, OH*

MASTER OF SCIENCE IN COMPUTER SCIENCE · GPA: **4** *Class of 2020 (Graduation expected in May 2022)*

Advanced Intelligent Systems and Deep Learning, Visual Computing and Mixed Reality, Advanced Computer Vision, Robotics, Artificial Intelligence, Cloud Computing and Applications, Graph Algorithms, Algorithm Design and Database I.

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

BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING · PERCENTAGE: **75.67 %** / 100 (DISTINCTION) *Class of 2015*

- Qualified for Round 1 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.
- 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).
- Hosted bootcamps (as a Speaker and an Organizer) with my peers on "*Android App Development* "and "*Internet of Things*" for sophomores in my junior year in my college.

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. (Ceased all operations) *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

Birds Classification and Visualization using Tensorboard (GitHub Repository Link[1])

MODEL DEVELOPER *June 2021*

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

Real-Time Object Detection (GitHub Repository Link[1])

APPLICATION DEVELOPER *February – April 2019*

A machine learning application using YOLO algorithm to detect objects using Python and OpenCV.

A Web Chat App[1] (Bitbucket Repository Link[1])

FRONT-END DEVELOPER *July 2021*

Created a web service to register your own account and chat with other online users along with a simple chatbot using Web Sockets, REST APIs, JSON Web Token and MongoDB written in JavaScript, Node.js, HTML and CSS.

My Personal Website[1] (GitHub Repository Link[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 accessibility features (Can be navigated intuitively just with a keyboard).

Automatic Resumé Generator (GitHub Repository Link[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.

Website[1] for College Fest (GitHub Repository Link[1])

FRONT-END DEVELOPER *December 2017*

A website for exploring and registering for various events for Elevar Technical Fest 2K18 using HTML, CSS, Bootstrap and Firebase.

Obstacle-Avoiding Mini Rover (GitHub Repository Link[1])

Python Programmer *September 2018*

A rover with Raspberry Pi, Ultrasonic sensors, L293D motor driver and a battery that can detect and avoid the obstacles on its way and reach its destination.

Artwork for College Fests (Elevar 2K18 and Taksh 2017). (Works[1])

Co-Lead Designer *August 2017 – March 2018*

Designed and created artwork for college fests including logos, banners, backdrops etc. using Adobe Illustrator and Adobe Photoshop.

Skills

Concepts: Machine Learning, Neural Networks, Optimization, Small-scale Robots, Web Development, Algorithm Design, Graph Algorithms.

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

Cloud Platforms: Heroku, Microsoft Azure.

Web Technologies: HTML, CSS, JavaScript, Angular, Node.js.

Databases: Oracle SQL, MongoDB.

Designing Tools: Adobe Photoshop, Adobe Illustrator, Blender, Adobe After Effects, Adobe Premiere Pro, Adobe Audition, Audacity.