Karthik D

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INTERNSHIPS & PROJECTS

AICTE Fellowship — *Web-Developer Intern*

JANUARY 2021 - MARCH 2021

Developed SaaS applications with multi-user-roles with Ruby-Rails, HTML/CSS/JS stack. ReScript-React DOM for dynamic web pages. Gained experience in structured web dvlpmnt, typed functional meta-languages

TechCiti Software Solutions — *Software Developer Intern*

JUNE 2020 - SEPTEMBER 2020

Developed machine-learning applications deployable through the web. Worked with Python CGI, Django and Flask for backend and CSS/HTML with JQuery for frontend. Leveraged Keras and Tensorflow for ML

LocateMyBus — *City Bus Live-Tracking Website*

APRIL 2020 - DECEMBER 2020

Linux-Apache-MySQL-PHP (LAMP) server **Laravel** framework. **API endpoints with token-authentication** to interface **IoT** components. Publish-subscribe architecture. **AJAX-JavaScript** web pages for human interface.. As part of an **Internally Funded Project**

Wise Engage — Appointment/Room Slot Management

NOVEMBER 2019- JANUARY 2020

A fairly complex **Python-Django** with **PostgreSQL** website providing **authenticated API endpoints** and webpages to manage highly customizable appointment/room slots. Applied **serialization**, **signal passing** and **event triggers** of Django to support multiple user roles

Underwater ROV — Consortium Research Project

FEBRUARY 2020 - Present

Design and Development of an **ROV** that operates using **MOOS-IvP** via a tethered control, relaying sensory signals. Part of an Externally Funded Project of the Under-Water Acoustic Research Lab (**UWARL**) at SSNCE

EDUCATION

SSN College of Engineering, Chennai — *B.E (CSE)*

JUNE 2019 - Present   **CGPA: 9.92**

CMR National Public School, Bangalore — *Senior Secondary*

APRIL 2017 - MAY 2019   **Aggregate: 95%**

Kendriya Vidyalaya DRDO, Bangalore — *Secondary School*

APRIL 2007 - MAY 2017   **CGPA: 10.00**

SKILLS

Python, C/C++, PHP, Ruby, Java

JavaScript, **ReScript**, ReasonML

React, **JSX**

Django, **Flask**, Laravel, Rails, CGI

Web-Dvlpmnt, Software-Dvlpmnt

Image Processing (ML)

Statistical & Probabilistic Modelling

RELEVANT COURSES

Web-Scraping and Crawling (Python)
Course-Workshop by CSI Student Chapter, IIT Alumnus. (PyAutoGUI, Selenium)

ACHIEVEMENTS

Rashtrapati President Award
The Bharat Scouts and Guides

HP Codewars - Ranked 7th
National Level Competitive Coding Contest at Bangalore

Selected 24 of 50k+ Applicants
across India for the AICTE Online Fellowship program

Placed 1st in Resurgence Ebizz
A city level Web-Development contest

Placed 2nd - Experimental Skills Test
conducted by IAPT, IIT-Kharagpur

POSITIONS HELD & VOLUNTEER WORK

Team Lead (Tech. Support Committee)
City-level inter-school fest, CMR-NPS

Mentor - Physical Computing Club IoT
IoT Dvlpmnt club, CMR-NPS

President - Literary Club
Kendriya Vidyalaya, DRDO

Polio Vaccination Drive - Volunteer
Organized by The Bharat Scouts & Guides

Teach A School - Volunteer
by Lakshya Entrepreneurship Club, SSNCE

Blood Donation Camp - Volunteer
by the Youth Red Cross, SSNCE