Aanand Vardhan

Computer Science Engineer

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SKILLS

- Fluency in Python, Java and C++
- Machine Learning (Tensorflow)
- Robot Operating System
- Data Science (R and Python)

- Hardware Software Integration
- SDLC
- UX/UI Design
- Laravel, Ionic and React

EXPERIENCE

Green Team (Driverless), Stuttgart - *Perception and Estimation, Part Time*

December 2019 - Present

- Perception of objects using Deep Learning and Keypoint Regression for further analysis using a Mono and Stereo Camera setup.
- Integration of the software solution into ROS with latency optimisation and correction.

Team Alacrity - SAEIndia Supra - *Software/Hardware Integration*

April 2016 - September 2016

- Designing and development of the Chassis using SOLIDWORKS.
- Designing the Electronics Systems using TinyCAD

Team Alacrity - Quad Torc - *Software/Hardware Integration*

June 2015 - February 2016

- Designing and development of the Chassis using SOLIDWORKS.
- Designing the Electronics Systems using TinyCAD

Globus Eight, Gurugram - *IP Specialist, Part Time*

November 2015 - January 2018

- Developing mobile applications for the IOT environment and services.
- Integrating and developing elements of the IOT model to be implemented in real time applications.

Sattva Care, Gurugram - *Volunteer, Part Time*

January 2017 - July 2017

- Web development and administrative automation.
- Setting up and developing the website and administrative portal.
- Setting up a private cloud server for internal use for the organisation.

INTERNSHIP

Globus Eight, Gurugram - *Software Developer*

NOV 2013 - JAN 2014

- Training for Android Development.
- Working in the Tasker and Autoremote environment to create a mobile networked system for the implementation of IOT

PROJECTS

Elevate- *Software/Hardware Integration*   **JUL 2017 - MAR 2018**

- An Autonomous Pollution Surveillance Drone collection of Volumetric Pollution Data.
- Data Processing and Analysis deployed to a website, providing the data free for all.

OBDII Tool - *Software/Hardware Integration*   **JUN 2016 - DEC 2016**

- Developed IOT Solutions for vehicle systems.
- Created a smart learning tool for diagnosing vehicle dynamics.
- Data preparation for Fleet Management and vehicle breakdown prediction.

Craftbreja - *Software Design and Development*   **OCT 2016 - FEB 2017**

- Development and deployment of an E-commerce and Crowdfunding application for a beer brewing company in Brazil.
- Complete Software Lifecycle designing and version control setup.
- Application developed using AWS and Ionic.

KTANE Helper App - *Software Development*   **JUN 2016 - JUL 2016**

- A voice assistant application that provides solution to the game KTANE.
- An Android application made using the Android SDK

EDUCATION

University of Stuttgart, Stuttgart - *M.Sc in Computer Science*

APR 2019 - Present

NorthCap University, Gurugram - *B.Tech in Computer Science Engineering*

AUG 2014 - MAY 2018

The Shri Ram School Aravali, Gurugram - *ISC*

APR 2011 - MAR 2013

The Shri Ram School Aravali, Gurugram - *ICSE*

JAN 2009 - MAR 2011

CERTIFICATIONS

Coursera - *Machine Learning Specialisation*   March 2018
- 4 Course specialisation taught by the University of Washington.

Max Mueller Bhavan - *Goethe Zertifikat A1*   June 2018
- A1 German language proficiency.

FOSS - *PHP Basics*   November 2014
- Basics of PHP for beginners.

INTERESTS

Music - *Guitarist and Singer*
- Performed professionally in a band for the Westin Hotel and Resort for 1.5 years.
- Performed at TedX for cultural music awareness.

Sport - *Football*
- Played in multiple Semi-professional leagues
- Part of the College team.

Sport - *Basketball*
- Part of the College team.

Motorsport - *Rally and Track*
- FMSCI Individual Entrant Licence for track and rally use.