AISHWARYA PADMANABHA

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EDUCATION

Bachelor of Engineering in Computer Science and Engineering *June 2018*
SJB Institute of Technology (affiliated to VTU), Bangalore, India
Obtained First Class (68%) | VTU, Karnataka, India

Pre-University College (up to 12th Grade/Senior year) *June 2014*
Sri Kumaran Children's Home Pre-University College, Bangalore, India
Obtained Distinction (88%) | State Board, Karnataka, India

Schooling (up to 10th Grade/Sophomore) *June 2012*
National Public School, Bangalore, India
CGPA: 8.6/10 | CBSE

TECHNICAL SKILLS

- **Programming languages and mathematical packages:** C, C++, Python, Java, Bash, Processing, Arduino, Octave
- **Operating Systems:** Linux based OSs', Unix, Windows
- **Web Programming:** HTML, CSS, JavaScript
- **Other tools:** Git, Inkscape, Gimp, TensorFlow, Flask, Django, Pelican, Keras, React

ACADEMIC PROJECTS

Face Recognition
- Objective and Outcome: Details of a person retrieved using the Local Binary Patterns Histogram (LBPH) algorithm. Yale University has open sourced its database for face recognition which was used for this project. Got extensive exposure in application based programming using Python.
- Tools and languages used: OpenCV, Python, Linear Binary Patterns Histogram (LBPH) algorithm.
- My involvement: Researched and coded the algorithm in Python upon estimating other options and wrote a thesis.

Pose Estimation of an autonomous vehicle using LiDAR generated data | *Technical Lead*
- Objective and Outcome: The pose of an autonomous vehicle is estimated by calculating the transformation taken place by the vehicle (object) using LiDAR generated point cloud data. We learnt how to manipulate point cloud data and implementation of neural networks.
- Tools and languages used: TensorFlow, Keras, Python, Point Cloud Library, Nvidia GPU.
- My involvement: Coded layers of the neural network and led the team with implementation and thesis production.

PROFESSIONAL EXPERIENCE

Internship at Anita Borg Institute ***(ongoing)***
- Following up with companies on getting the tickets for the conference and give-aways
- Content editing for the website
- Tracking and creating unique registration codes for tickets for about 40 different companies
- Handling all the databases

Freelancer
- Website designing and marketing for PyLadies Bengaluru using Pelican
- Website designing for Bizzgyaan using Gatsby
- Graphics designer for Free Software Movement Karnataka

UNIVERSITY SERVICE

GNU/Linux Users' Group (GLUG) Community
- Volunteered to teach Python and Processing to students in my college
- Teaching the benefits of using Free and Open Source Programming

College Magazine Community – Editor's Wing
- Involved in marketing the magazine in college for acquiring more articles
- Member of the editing wing, edited over 50 articles per year

LEADERSHIP EXPERIENCE

Chief Member at GNU/Linux Users' Group (GLUG) Community
- Conducted a workshop on Introduction to Python Programming
- Conducted a workshop on Graphics Programming using Processing

Chief Editor for College Magazine Community
- Supervise other editors' and writers'
- Analyse what genres must be present for more takers
- Oversee proper communication between design committee and writers'/editors'

Senior Lead of Computing Track of Camp Diaries (an initiative of 'Teach for India')
- Led a team of 30 volunteers
- Formulated the curriculum for the Computing Track
- Arranged for resources for all the sessions conducted

ACHIEVEMENTS

- Received **VTU (Visvesvaraya Technological University) Financial Assistance** for our 8th Sem Project on Pose Estimation of an Autonomous Vehicle
- Bagged the **GHCI (Grace Hopper Celebration India) Scholarship 2017** for Women in Tech among 3300 other applicants

VOLUNTEERING

- **Free Software Movement Karnakata (FSMK)** as a FOSS evangelist
- **Camp Diaries, Initiative of Teach for India,** an NGO aiming to educate students of grades 4 – 7
- **Co - founder PyLadies Bengaluru**

TALKS GIVEN

- **Pelican, a Static Site Generator powered by Python**
- **Analysis of Iterative Closest Point Algorithm**
- **Chosen to address a crowd of 1500 people on Graduation Day**