AMRUTA FOLANE

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OBJECTIVE: To obtain a full-time internship in the field of Web development for Summer/ Fall 2017

EDUCATION:

University of Texas at Dallas, TX USA	**MS in Computer Science**	Exp. **May 2018**
University of Pune, INDIA	BS in Electronics & Telecommunications	May 2015

EXPERIENCE:

- **Programmer Analyst Trainee, Cognizant Technology Solutions,** Pune, INDIA **[Dec 2015 – June 2016]**
  - Got trained in C, SQL, JAVA
  - Worked on a back end Java project in a team

- **Engineering Intern at TATA Motors,** Pune, INDIA **[June 2014 – July 2014]**
  HLA assembly inspection system for 2.2ltr engine using Machine vision technology
  - Inspected the rocker arm connected to the HLA (Hydraulic Lash Adjuster) and the inlet/exhaust valves of the engine, often misplaced from its original position by manual handling/other reasons by image processing
  - My contribution to the project was programming the PLC used for the hardware of the camera installation and also the vision system used for inspection
  - Work resulted in fewer number of faulty engines and less frequent vehicle maintenance
  - **Technologies**: Java, Python

TECHNICAL SKILLS:

- **Programming Languages :** Java, SQL, Python, MATLAB
- **Software Tools :** Eclipse, NetBeans, Turbo C, MATLAB, Xilinx ISE (VHDL), KeiluVision, Multisim

ACADEMIC PROJECTS:

- **Obstacle detection and classification for autonomous ground vehicle, DRDO, Pune, India [July 2014 – May 2015]**
  - Effectively developed the software for a system which aids an unmanned vehicle to successfully navigate roads, amid obstacles using computer vision techniques and used Gaussian Mixtures for modeling the background
  - Played role of a programmer and did background research for image processing and computer vision in a team of three
  - **Technologies**: MATLAB

- **Grading of apples using image processing [Jan 2014 – May 2014]**
  - Collaboratively worked with a team of three to develop a system for the grading of apples using image processing by extracting features from the real-time images captured depending on the color, texture, external blemishes on the fruit.
  - Coded in MATLAB & programmed the microcontroller for the hardware

RELEVANT ACADEMIC COURSES:

Machine Learning | Algorithm Analysis & Data Structures | System Programming & Operating Systems | Soft Computing | Computer Networks | Computer Organization & Architecture| Fundamentals of Programming Languages

ACHIEVEMENTS

- Secured 1st place in the final year project competition among 50 groups in the image processing domain
- Organized **TEXEPHER** – a national level technical fest organized by MIT, Pune (2013)
- Volunteered the National Conference (SITACS- Signal Image Technology & Applied Communication Systems, 2014) at MIT, Pune
- Attended ROBOTSAV-Robotic Workshop at MIT, Pune (2012) and also won Mat(h)lab mania and line tracer events at technical fest
- Competed for National Cyber Olympiad (NCO) in grade 10 (2009) & Maharashtra Talent Search (MTS) in grade 9 (2008)