

FAYAZ AHMED VELLORE FAROOQUE

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OBJECTIVE:

Seeking an opportunity for summer internship as a software developer.

SUMMARY:

4 years of work experience in developing drivers, middleware and applications for Linux based embedded multimedia streaming devices. Brief stint as a web application developer with experience in developing front end web applications using AngularJS and REST APIs using NodeJS. Currently pursuing MS in Computer Science and Engineering with academic projects focused on data analysis and machine learning algorithms.

EDUCATION:

University at Buffalo, State University of New York

Master of Science in Computer Science & Engineering

GPA 3.75/4.0

Buffalo, NY

Expected May-2017

Academic projects:

- **Handwritten digit recognition:** Classification of scaled handwritten digit images using Logistic Regression, Neural Network and Convolutional Neural Network. MNIST dataset used for training and validation while USPS data was used as dataset.
- **Relevance prediction for search results:** Predict relevance of a search result with respect to a query using Linear Regression, by training the model using data from Microsoft's LETOR package. Performance of Maximum likelihood and stochastic gradient descent approaches were evaluated for the same dataset.
- **Social Media search engine:** Multi-lingual search engine based on Apache Solr, using Twitter data crawled for a specific topic from 5 different languages. Tweets crawled were content-tagged to enable search result drill down on facets. Query translation done to perform cross lingual search

People's Education Society Institute of Technology

Bachelor of Engineering in Computer Science & Engineering

GPA 8.29/10.0

Bangalore, India

2011

Academic projects:

- **Optical Character Recognition:** Achieved using Neural Networks and Support Vector Machines classification models for classifying English and Hindi characters respectively.
- **Language Model and Part of Speech tagging:** Brown corpus used to train a language model. PoS tagging achieved by training over Brown corpus using the Viterbi algorithm.

WORK EXPERIENCE:

Sling Media Pvt. Ltd. (4 years)

Senior Software Engineer

Software Engineer

Bangalore, India

Apr-2014 –Jul-2015

Jun 2011 - Mar 2014

- Extensively worked on developing hybrid web applications using AngularJS framework for mobile devices.
- Developed custom abstraction layer for web applications to interact with Android/iOS hosts.
- Experience in translating UX specs to CSS optimized for hybrid web applications for mobile devices.
- Experience in Linux system and socket programming, developing drivers and applications for embedded multimedia streaming device and in porting bootloader and kernels for product specific requirements.
- Extensively worked on development of front end drivers for micro-controllers like Audio/Video decoders (SSM2604/ADV7842) and Universal IR blaster over SPI, UART and I2C interfaces.
- Handled Board Support Package activities involving validation of GPIO, I2C, NAND flash, SPI flash, Audio/Video decoder, WLAN modules and NAND, SPI flash interfaces, DDR3 memories.
- Experience in porting of WLAN drivers for product requirements.

Althea Systems.

Intern

Bangalore, India

Jan-2011 –May-2011

- Worked on evaluating performances of different machine learning algorithms for video content classification.

TECHNICAL SKILLS:

- **Programming:** C/C++, Python, Shell scripting, Matlab, HTML/CSS, JavaScript, AngularJS, NodeJS, Pluscal.
- **Tools:** Apache Solr, vi editor, gdb, Eclipse, MS office.