

AMIRTHA VARSHINI A S

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EXPERIENCE

Embedded Software Engineer in Qualcomm

July 2018 - present Bengaluru, India

- Worked on FastRPC feature for QNX RTOS- allowing clients to utilize the Digital Signal Processors (DSP) from Qualcomm Snapdragon processor. Part of developing safety-critical features watchdog and memorydump.
- Created parser in Python to extract info from system ram-dumps and debugging crashes resulting from stability testing. Automated the process resulting in 30% reduction of effort

Summer Internship in Microland

May 2017 to July 2017 Bengaluru, India

- Created visual dashboards to display dynamically extracted data from Office 365 Reporting web service and customized Skype for Business reports
- Programmed a local admin portal for performing Office 365 Admin activities using LAMP stack and Powershell backend

Winter Internship in Extreme Networks

Nov 2016 to Jan 2017 Chennai, India

- Scripted the configuration of VLAN in switches using Tcl and monitored network connection using Ixia Traffic Generator
- Developed a website for viewing the status of test cases to ensure the correct working of LAN switches

Summer Internship at Eishaa Networks

May 2016 to July 2016 Chennai, India

- Modelled an Accident prediction system based on metrics like driver's blink rate and alcohol level using Mega Trend Diffusion (MTD) Algorithm in OMNET++ Framework

ACHIEVEMENTS

- Recipient of K. C. Mahindra Scholarship for Post Graduate Studies Abroad , 2021
- Project 'LIVA' selected as Top 6 finalists in Maker's Challenge of QBuzz 2019, Qualcomm India's Innovation conference
- Poster on 'Automated Bug Triage with Machine Learning' selected for Qualcomm ML Summit 2019
- Received two Qualstars in tenure at Qualcomm for innovation and excellent delivery of results
- Secured First Place in Final Year Project Competition organized by Sonata Software and Centre for Entrepreneurship Development and Incubation (CEDI) NIT Trichy in 2018
- Recipient of AIEEE Merit Scholarship for obtaining rank under 2000 (amongst 1.35M candidates) in JEE mains Exam, 2014
- Among the top 1 percentile in the country in class 12 (AISSCE) examinations and qualified for Scholarship for Higher Education (SHE) under INSPIRE program ,2014
- Best Outgoing Student of my batch during class XII in 2013
- One of 30 selected students in Chennai to be part of the Research Science Initiative, 2013, conducted at IIT Madras
- Rajya Purashkar awardee in Bharat Scouts and Guides, 2013

EDUCATION

M.S in Computer Science

Georgia Institute of Technology

2023 - Expected Atlanta, USA

B.Tech in Electronics and Communication Engineering - 8.90/10 CGPA

National Institute of Technology Trichy

2014 - 2018 Tiruchirappalli, India

PROJECTS

Low-cost intelligent vision in automotive (LIVA) | June - Oct 2019

- Collected dataset of depth images using Kinect V2 mounted on a moving car
- Performed object detection on depth images in real-time to recognize pedestrians and vehicles using retrained YOLO V3 model with Coco dataset

Real-Time Hand Gesture Recognition system | Jan - May 2018

- Based on gestures, controlled home automation setup and a custom-built robotic arm interfaced with an Arduino Uno to the laptop
- First author of a paper presented in FAIML conference and published in ACM ICPS - <https://dl.acm.org/doi/10.1145/3459104.3459142>

SKILLS

- Languages : C, Python, Familiar in - C++, Bash
- Web Dev : HTML, CSS, Familiar - PHP, JS
- Platforms : Linux, QNX RTOS, ARM V8
- Packages : OpenCV, Tensorflow, Flask

COURSEWORK

- Data Structures & Algorithms,
- 18-661: Intro to ML for Engineers - Remote course from CMU,
- Deep Learning Specialization - Coursera

EXTRA CURRICULARS

- Blog writer for publications like Hackernoon
- Head of Web Operations in Probe 2018, ECE Department Symposium
- System Administrator in Spider, RD club
- Interned in 1M1M, a startup accelerator.
- Excomm member at National Service Scheme, NITT and Volunteer in NGOs - AIESEC & EWB