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## Skills

**Development:** Android, Java, Unix

**Autonomous Systems:** Aerial Robotics, C++

**Data Science:** Elastic Search, Logstash, Python, Java

**Artificial Intelligence:** Deep Learning, Tensorflow

## Projects

- **MOOC Projects**

*Student, August 2016 - June 2018*

- Udacity Flying Car Nanodegree - completed backyard-flyer, motion-planning, flight-controller and estimation projects
- Udacity Deep Learning Nanodegree - completed bike-ride-prediction, sentiment-analysis using IMDB data, dog-image-classification using CNN, tv-script-generation using RNN and face-generation using GAN projects
- Udacity Android Nanodegree - completed the-moviedb-app, baking-app and waxtree-app projects.

- **OpenWARP**

*Opensource Contributor, August 2016 - October 2016*

- In series of paid challenges from Topcoder, I have created installer for Windows, Linux and Mac.
- created testscripts to test geometries by porting third party libraries, bug-fixing and documentation.

- **Stanford Scholar Initiative**

*DRI, December 2016 - January 2017*

- **Beacon - final year project**

*Student, August 2012 - April 2013*

- created modules to find shortest path for ships (travelling salesman problem) using genetic algorithm.
- created modules to maximize containers payload using bin-packing algorithm.

## Professional Experience

- **Harman Connected Services**

*Senior Software Engineer, April 2014 - Present*

- Developed Android modules for device management and FOTA update using Marimba technologies
- Developed logcollector, analysis and prediction modules using Elastic Search and Logstash
- Developed low cost proxy server on Raspberry Pi that integrates with Marimba components
- Ported Marimba components to Linux ARM embedded platform
- Ported RSA-SSL modules to pure Java SSL implementation to support TLS 1.2 in Marimba
- Owned resolution tasks of escalations/defects/RFEs from support team
- Provided technical training, POCs, and conducted interviews for Dev, QA and support roles

## Education

- **Asia Pacific Institute of Information Technology**

Panipat, Haryana

*B.E., Computer Science*

*August 2009 - September 2013*

**Courses:** Mathematics, Algorithmics, Datastructure, Databases, Design Patterns, Project Management

## Publications

- **Academic research paper:** Genetic Approach to Travelling Salesman Problem.

## Awards

- GoldMedal (2013, awarded to top candidates of the graduating batch)