

AADITYA UPPAL

<http://github.com/aadiuppal>

<http://aadiuppal.github.io>

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Norwalk, CT - Phone: 979.985.0701

Software Engineer with 2 years of professional work experience and internships.

Key Strength Areas: Algorithms, Data Structures, Mathematics, Proficiency in Multiple Object Oriented languages, Full Stack Development

Languages/ Platforms/ Tools: C, C++, Python, Android SDK, Java, AngularJS, Ruby on Rails , Git, Agile development, Linux, Mac, Windows, Matlab

EDUCATION

Texas A&M University, College Station, Texas

August 2014 - August 2016

Master of Science, Computer Engineering

GPA - 3.89/4

National Institute of Technology (NIT), Hamirpur

August 2009 - May 2013

Bachelor of Technology, Electronics and Communication

GPA - 7.65/10

WORK EXPERIENCE

Factset Research Systems, Norwalk, CT

Software Engineer

October 2016 – Present

- Developing a framework with AngularJS that gives new components, better code reuse, modular, faster development and enhanced user experience on a range of next generation Factset tools.

Samsung R&D, New Delhi

Software Engineer 2

July 2013 – July 2014

- Primarily contributed to the development of Media Player built on open source Gstreamer framework for Samsung's Industry leading Smart Television Middleware based on the Linux operating system Tizen.

Intel Corporation, Austin, TX

Master's Level Graduate Intern

January 2016 – August 2016

- Developed software tools to automate optimizing slack timings in different CPU paths for Intel Atom CPU.
- Developed tool to flag bottlenecks in CPU design components e.g. wire lengths, latch recoveries, parasitic capacitances etc.

Samsung R&D, Austin, TX

System Architecture Intern

May 2015 – August 2015

- Worked with Debug and Validation team to develop C++ backend for stress android tests and random assembly instruction tests for Samsung's state of the art processor and interconnects.
- Developed Android app to simultaneously preview camera multiple times along with taking pictures and multiple video playback.
- Developed a random instruction generator tool that could generate random assembly instructions to check for correctness and efficiency of arithmetic and branch instructions.

Defence Research & Development Organization, Bangalore

Student Intern (Electronics and Radar Development Establishment (LRDE))

May 2012 – July 2012

- Completed design and development of Radar Controller Software on Power PC based hardware using Linux Kernel
- Designed Azimuth over Elevation System Stabilization of Radar on Aircraft using Fuzzy Logic

HONORS / NOTABLE ACHIEVMENTS

- Samsung R&D Intern award, August 2015.
- Department of Technical Education Scholarship holder, August 2009 – May 2013.
- Student body President for Society for Promotion of Electronics Culture at National Institute of Technology, Hamirpur. Took the

lead on initiative to promote hands on robotics and programming.

- Consistent 100% in Mathematics board examinations for grade 10, 12. Regional Olympiad, NTSE Ranks: 37, 16

PROJECTS

Bus routing information application for Android

- Built an android application that provides information of best available routes between two points that uses multi-threaded graph search to get faster results.

Survey Data Management

September 2015 – December 2015

- Developed an end to end Software As A Service. Involved working on legacy code using agile methodology to implement a service that displays a graphical view of user data aggregated through surveys and provides different hierarchy of users using Ruby on rails.

A heuristic based Blocks Word game solver

October 2015

- Used a-star search algorithm that optimized the search for goal state in game by implementing multiple heuristics to provide an optimal path solution.

Implementation and performance comparison of informed and uniformed search algorithms

September 2015

- Implemented heuristic based search algorithms like a-star, greedy best first and compared their performance with uninformed search like bidirectional, depth and breadth first search.

Twitter Trending News application for Android

October 2014 – December 2014

- Built an android application that provides twitter based news feed according to latest trends on twitter

Optimizing Cache performance using improved Dirty Block Index system

August 2014 – December 2014

- Optimized and Evaluated the performance of cache by removing the dirty bit from tag store and placing it in a separate dirty bit index.