Niraj Goel

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EDUCATION

Texas A and M University, College Station, TX
- *Master of Science in Computer Science* *May 2019*
  GPA: First Semester Student

PES Institute of Technology, Bangalore, India
- *Bachelor of Computer Science and Engineering* *Aug. 2011 - May. 2015*
  GPA: 8.68/10.0

EXPERIENCE

- **ARM** Bangalore, India
  Software Engineer, Architecture and Technology group *July 2015 - July 2017*
    - Designed, Developed and Deployed the Architecture Resource Configuration Interfacing(ARCUI) tool.
    - Collaborated with a team of 30+ members and automated Model configuration process.
    - Developed and Maintained multiple software tools for running, reporting and configuration of Architecture Validation Suite.
    - Prototyped the application for automatic test database generation.
    - Owned the development and release of the Validation Abstraction Library for the v8R profile ARM Architecture. The library provides functionalities like boot code, exception handling and Trickbox APIs
    - Mentored 2 interns and facilitated the ramp-up of new team members.

- **ARM** Bangalore, India
  Intern, Architecture and Technology group *June-July 2014 and Jan-Apr 2015*
    - Developed a framework to implement and deploy Architectural Checkers and Profilers for the Architecture Validation Suite (AVS).
    - Implemented and deployed Checkers to detect compliance with memory management operations.
    - Implemented and deployed Profilers to identify performance bottlenecks in AVS.

PROJECTS

- **BLOX**: Prototyped a voice controlled low power IOT device which can host basic apps like clock, weather, stocks etc. Developed a Software Framework for App Development for BLOX. Technologies: Python, Google speech engine, ARM mbed Platform, micro-controller, E-ink display and WiFi
- **Lookaside Sort**: Devised a new sorting algorithm. The algorithm is an optimized version of merge sort that uses heuristics to partition the elements.
- **CAMS**: Developed a Web based College Activity Management System to manage all the clubs within the campus and enable their interaction with students. Technologies: HTML, CSS(BootStrap) , JavaScript, PHP.

PROGRAMMING SKILLS

- **Languages**: Python, C++
  familiar with : Java, Perl, SQL, Web technologies

- **Technologies**: Unix, Make, SVN, GIT, Jenkins, ARM Architecture, Photoshop

AWARDS AND INVOLVEMENT

- First Class Distinction award in all semesters of Undergraduate program.
- Won Bravo award at ARM in recognition of contributions to the Methodology team.
- Former Secretary of ARM Talkies Toastmasters Club.
- Led a team of 6 as the Head of the Public Relations team, Entrepreneurship cell, PES Institute of technology.
- Volunteered for multiple social activities as a member of TeamARM, the CSR club of ARM.
- Volunteered as a teacher at SIKSHA - an I-care initiative to provide education to underprivileged kids.