

# Nafisa Ali Amir

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Webpage: <https://amirnafisa.github.io>

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## SUMMARY

### Software Engineer

Computer science student with diverse background and rich experience in industry, research and academia. A natural language processing and deep learning enthusiast, able to work both independently and in a team, demonstrating motivation and multi-tasking abilities required to meet demanding deadlines while maintaining highest standards.

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## EDUCATION

**Masters in Science and Engineering, Computer Science**, Johns Hopkins University 2018-2020

**Masters in Technology, Electronics Design and Tech**, Indian Institute of Science 2010-2012

**Bachelors in Engineering, Electronics and Telecommunication**, Rajiv Gandhi Institute 2006-2010

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## PROGRAMMING SKILLS

Python • C • C++ • Perl • PyTorch • Numpy • Scipy

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## OTHER TECHNICAL SKILLS

Github • AWS • Google Colaboratory • Microsoft Office • SVN • Unit Testing

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## COURSES

Machine Learning • Deep Learning • Natural Language Processing • Parallel Programming • Information Retrieval and Web Agents • Vision as Bayesian Inference • Probability and Statistics • Data structures • Introduction to Algorithms • Processor Design

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## PROJECTS

**Github:** <https://github.com/amirnafisa>

- Catchphrase extraction from legal documents Apr 2019
- Fine tuning and ensembling deep architectures in Resource Constrained Environment Nov 2018
- Earley Parsing and HMM based Tagging using Forward Backward and Viterbi Algorithm Sep 2018
- Cyber Physical System with Service Oriented Architecture Aug 2012

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## PUBLICATION

Rao, I. H., Amir, N. A., Dagale, H., & Kuri, J. (2012, December). e-SURAKSHAK: A cyber-physical healthcare system with service oriented architecture. In Electronic System Design (ISED), 2012 International Symposium on (pp. 177-182). IEEE.

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## RESEARCH EXPERIENCE

**Research Associate**, [PRiME](#) and [APT](#), University of Manchester, Manchester, UK Jun 2016 – Feb 2017

- The project was a part of PRiME in collaboration with Intel, Microsoft Research, University of Southampton
- Created firmware for ARM based microprocessor (Cortex M4) for testing and benchmark validations and for supporting spiking neural network applications

**Research Student**, Indian Institute of Science, Bengaluru, India June 2011-May2012

- Designed, implemented and tested cyber physical healthcare systems with service oriented architecture

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## PROFESSIONAL EXPERIENCE

**Firmware Engineer**, Automata Technologies, London, UK Jan 2018 – Apr 2018

- Designed, implemented and tested the firmware for robot's end effector

**Design and Testing Engineer**, Roamworks, Dubai, UAE Aug 2014 - Jun 2016

- Designed, implemented, tested and launched an electronic communication interface for scada and fleet management systems

**ASIC Design Engineer**, Nvidia, Bengaluru, India Aug 2012 – Feb 2014

- Worked on netlist verification and timing closure of CPUs and SOCs of Tegra processors while also implementing engineering change orders (ECOs) on pre and post layout netlist