

ROHIT TAKHAR

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EXPERIENCE

Research Engineer

Aspiring Minds

June 2016 – Ongoing

Gurugram, Haryana, India

- **Automatic business email evaluation**
Co-developed a system which can evaluate emails on content/contextual relevance, grammar and structure of the email.
- **Language independent features for grading programs**
Experimented with different languages to see if we can develop a system/intermediate representation which can solve our problem of scaling current system of program grading to multiple languages. This is similar to applying source to source transformation across different languages.
- **Grading uncompileable programs**
Developed a system to grade uncompileable programs on the basis of logical correctness of the program. Supported languages: C, C++ and Java.

Research Intern

Aspiring Minds

Dec 2015 – Feb 2016

Gurugram, Haryana, India

- Developed a system to identify the time complexity of python programs. This approach was further scaled to 9 more languages.

Student Trainee

Samsung Research Institute

June 2015 – July 2015

Bengaluru, Karnataka, India

- As part of Memory Solutions Group, I developed a system to run tests on SSDs parallelly. It improved the efficiency of the team to a large extent. Reports were emailed to the concerned people automatically. This internship helped me in understanding the concepts to write production-grade code.

PROJECTS

Operating System Algorithms Visualization App

Advisor: Prof. Pinaki Chakraborty, NSIT

June 2015 – March 2016

Gurugram, Haryana, India

- Co-developed a desktop and android application which can be used by students/teachers to visualize various operating system algorithms (CPU Scheduling, Page Replacement etc.)

Multi-segmented FTP Client

Advisor: Prof. Khushil Saini, NSIT

Jan 2015 – April 2015

Gurugram, Haryana, India

- Developed multi-segmented FTP client which follows RFC 959.

PUBLICATIONS

Rohit Takhar, Varun Aggarwal. Grading uncompileable programs. *Under review @ KDD, 2018*

EDUCATION

B.E in Computer Engineering

Netaji Subhas Institute of Technology

Aug 2012 – June 2016

Percentage: 74.23%

ACHIEVEMENTS

Employee of the Month

Awarded for contributing with new research ideas and implementing those ideas at Aspiring Minds.

Merit Scholarship

Awarded scholarship every year during bachelors (2012–2016) for distinctive performance in academics.

ACM ICPC

Chennai Region 2015. Our three member team secured 55 rank.

AIEEE

Secured All India Rank 880.

SKILLS

Programming Languages

Python

C/C++

PHP

Tools and Libraries

MySQL

Git

scikit-learn

keras

pandas

LLVM

Clang

RESEARCH INTERESTS

Automatic assessment of programming problems

Assessing the logical ability of a candidate and providing a fine grained feedback.

Automatic program repair

Developing systems which can automatically localize fault in programs and can repair them without affecting the logic of the program.

Program synthesis

Developing systems that can assist non-programmers write programs.

VOLUNTEER

Machine Learning India

ml-india.org

June 2017 – Present

Co-organizing meetups in Gurugram and managing meetups in other cities across India.