Saatwik Singh Nagpal

5133-DSR Woodwinds, Sarjapur Rd
Bengaluru, Karnataka, India
✆ *+91 9818255203*
✉ *saatwiknagpal@gmail.com*

Work Experience

August 2018-Present — **Software Engineer at INTUIT**, Bangalore,
- Part of Unified Notifications team in Intuit, working on event based notification generation platform, serving around 20M notifications everyday.
- Designed, developed and deployed multiple features in the platform. - Java Springboot, Cassandra, Solr, MySql, Kafka
- Worked on revamping the onboarding website for the platform. Worked on redesigning and building the UI and created RESTful APIs. - ReactJS, Java Springboot, MySql.
- Led the initiative of moving Intuit multiple teams off legacy SMTP services to our platform, driving huge impact.

May 2017-July 2017 — **Software Engineer Intern at INTUIT**, Bangalore,
Worked on creating transaction tracing based logging library to add in microservices based platform. Also created a UI to view transaction based microservices flow. - NodeJS, ReactJS

July 2016-Present — **Algorithmic Problem Setter**, HackerEarth, HackerRank
- Created, tested and wrote editorials for algorithmic, mathematical and data structure based problems.

Education

2014-2018 — **Bachelor of Technology in Computer Science and Engineering**,
International Institute of Information Technology, Hyderabad.

2013-2014 — **Senior Secondary Education**,
St.Mark's Sr. Sec. Public School, CBSE.

Achievements

ACM-ICPC — **ACM-ICPC 2016 Amritapuri**, *Was part of team $Dont\_Believe$, ranked 41th among around $3,000$ teams that participated in the Online Round and qualified for ACM-ICPC 2016 Amritapuri Regionals (Sitewise Rank: 36th out of around $3,000$ teams) and ACM-ICPC 2016 Kolkata Regionals(Sitewise Rank: 15th out of around 500 teams).*

TCC-16 — **Topcoder Collegiate Contest-India 2016**, *Ranked among top-10 in Online Round of TCC-16*, Qualified for Onsite Finals.

HackerRank — **Morgan-Stanley Codesprint**, *Ranked 15th out of around $4,000$ participants at India level.*

Academic Projects

Monsoon 2017	**Parallel & Distributed Construction of Suffix Array**, *Implemented a research paper on constructing Suffix Array in a fully distributed and parallel manner in MPI C++.*
Monsoon 2015	**Simple C Shell**, *Implemented a linux shell-like command line interpreter in C for Operating Systems Course.*
Monsoon 2015	**Web Interface**, *Built an interactive web interface for using NLP tools and built python APIs to access those tools, as SSAD course project.*
Monsoon 2016	**Mini SQL Engine**, *Implemented a simple SQL Engine which is capable of executing select queries for data in csv files for Database Systems course.*

Technical Skills

Working Knowledge	GNU/Linux, Java, Python, MySQL, CassandraDB, Git, JavaScript, ReactJS, SpringBoot Framework, Scikit-Learn, C, C++, HTML, CSS
Past Experience	Bash Scripting(Basic), Blender(Basic), NumPy

Relevant Courses

Algorithms, C-Programming, Data Structures, Operating Systems, Discrete Mathematics, Into to Machine Learning, Computer Networks, Compilers, Database Systems, Natural Language Processing, Principle of Information Security, Distributed Systems, Complexity Analysis and Advanced Algorithms

Interests

Data Structures, Algorithms, Artificial Intelligence, Competitive programming, Travelling, Photography, Sports (Was member of college's volleyball team).

Competitive Programming

Codeforces, *saatwik27*, Highest Rating : 1937.

Codechef, *saatwik27*, Rating: 2142, Global Rank: 1168.

SPOJ, *saatwik27*, solved more than 320 algorithmic problems, ranked 750 in the all-time world rankings.

HackerRank, *saatwik27*, Rating: 2211.

Topcoder, *saatwik27*, Highest Rating: 1385(Div.1), Current Rating: 1359.