Harsh Mittal

Software Engineer
Google | IIT Ropar

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EDUCATION

Degree	Institute/Board	CGPA/Percentage	Year
Bachelor of Technology	Indian Institute of Technology, Ropar	8.55	2018-2022
Senior Secondary	Central Board of Secondary Education	89.8%	2018
Secondary	Central Board of Secondary Education	10.0	2016

EXPERIENCE

- **Google** *July 2022 - Present*
  Software Engineer Bangalore
  – Working as a Software Engineer with the Cloud Security Team.
  – Built infrastructure for large scale vulnerability(i.e. XSS) detection in host websites. Also created monitoring and alerting for it and launched it to all cloud customers.
  – Scaled the current infrastructure of our product to handle 10X traffic and improved the service availability.
  – Wrote detectors for detecting various vulnerabilities such as Invalid Security Headers Syntax.
  – Received Google API readability in a short span. It certifies that I know and follow all the best practices around developing and maintaining APIs.
  – Received Google API readability in a short span certifying my knowledge of building best designed APIs.
  – Received multiple appreciations from team for taking up difficult tasks and bringing them to closure.
- **Goldman Sachs** *June 2021 - July 2021*
  Summer Analyst Bangalore
  – Worked as a Software Development Engineering Intern in the Loans Engineering Division.
  – Defined and Developed the Site Reliability Engineering part using Java, Prometheus and Grafana.
- **Ketto** *July 2020 - Sept 2020*
  SDE Intern Mumbai
  – Using Natural Language Processing Techniques in Python to predict the success of a fund raising campaign.
  – Developed model to suggest changes to increase the expected revenue. It's predicted to increase the revenue by 4.3%.
- **Indian Institute of Technology Ropar** *May 2019 - July 2019*
  Research Intern Ropar
  – Researched ways to streamline the admission process for Post-Graduate and Ph.D. admissions to IITs.
  – Helped in the development of a real time web portal to handle all the queries from aspirants and institute.

PROJECTS

- **Traffic Analysis and Management** *Feb 2021 - May 2021*
  B.Tech Project
  – Developing model to analyse the traffic at a traffic junction through Computer Vision.
  – This analysis will then be used to route the traffic accordingly thus saving time and fuel.
- **Other Projects** *Jan 2020 - May 2021*
  Self **Github**
  – Implemented the code for Minimum Cost Arborescence with C++ from scratch.
  – Database Management System for Music Player & Library Management using SQLite.

TECHNICAL SKILLS

- **Programming Languages**: C/C++, Python, Java, Kotlin
- **Development**: HTML, Database Management Systems, System Design
- **Core Programming**: *ACM-ICPC Regionalist*, *Candidate Master* on Codeforces, *5 star* on Codechef
- **Others**: Production Systems, CyberSecurity, Site Reliability, Prometheus, Grafana, Financial Markets, etc

KEY COURSES TAKEN

- **CSE & Maths**: Algorithm & Data Structure, Operating System, DBMS, Discrete Math, Probability & Statistics, Calculus
- **Others**: Digital Logic Design, Signal & System, Macro & Micro Economics, Professional Communication

MISCELLANEOUS

- **KVPY Scholar**, Secured AIR 609 in Kishore Vaigyanik Protsahan Yojna 2016-17 — *2017*
- **World Rank 20**, CodeChef June Cook-Off, Under 10 in India Ranks — *2021*
- **Head Placement Coordinator**, Training & Placement Cell - Managing the 2021-22 Internships and Placements — *2021*
- **World Rank 100**, Codeforces Round 662, Under 20 in India Ranks — *2020*
- **Vice President**, Enactus, IIT Ropar - Responsible for Team Management, Corporate Relations, etc. — *2020*
- **Google FooBar**, Unlocked the special invite & Completed Google FooBar. — *2020*
- **Clubs**, Senior Member of FinCom, Represented in Inter IIT Tech Meet. — *2019*
- **Intellectual Property Rights**, First runner up in inter college IPR Quiz at Advitiya — *2019*
- **Social Service**, Member of the NSS, participated in Rescue during 2019 floods & Volunteer with Pehchaan. — *2018-20*