



Shashwat Garg

 (+91)7772835491

 shshwt.grg@gmail.com

 shshwtgrg

Summary

Strong engineering professional working as a Software Engineer 2 in Microsoft, with a Bachelor's degree focused on Computer Science & Engineering from Indian Institute of Technology, Mandi. I have expertise on scalable system design, and backend development, and fair practice with frontend development. My strengths include efficient collaboration, innovative ideas, and problem solving.

Skills

- Scalable system design
- Backend development
- Problem solving
- Efficient team collaboration
- Ownership & accountability

Honors & Awards

Paper publication | JPDC

Researched on Resilient Distributed Formal Concept Analysis (RDFCA), which got published in the Journal of Parallel and Distributed Computing.

ACM ICPC Regionals | CodeChef

Reached the regionals of ACM ICPC 2018 held in Amritapuri.

Runner-up in Aavishkar | IIT Mandi

Stood 2nd in the Technical Competition Aavishkar for the project - OculoScripter.

Runner-up in Topcoder Hackathon | Topcoder

Stood 2nd in the Hackathon organised by Topcoder in the College campus, for the project - CodeAssist.

Special Mention Award | IIT Mandi

For the contribution and performance in Volleyball team of the institute, and for being an amazing captain for the team.

Education

B.Tech., Computer Science and Engineering

Indian Institute of Technology, Mandi

GPA: 9.1

Experience

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| Aug 2020 - Present | Software Development Engineer 2
Bing Travel - Microsoft India (R&D) Pvt Ltd.
Tech: Microservices Monolithic architecture .NET MVC React AutoSuggest | Hyderabad, India |
| | <ul style="list-style-type: none">• For the initial 6 months, worked on the Knowledge Graph of Bing, where I updated, read from, and used relationships in the graph entities to show information to users on Bing search results page.• Built a vertical from scratch for showing top hotels to users, which shows the best prices from various providers for all hotels, helping users get the best deals all at one place.• Integrated this vertical with Bing SERP and other canvases like MSN, NTP, etc to provide users with the best content for their queries early in the funnel, and bring interested users inside the vertical for more information regarding the hotels.• Worked on both microservice platform, as well as monolithic services for creating the vertical. Created highly scalable services, which are supporting 200M+ daily requests.• Single-handedly created an AutoSuggest service for the vertical, for giving suggestions to users for their queries, and help complete their search faster. | |
| Jun 2019 - Aug 2019 | Software Development Intern
Microsoft India (R&D) Pvt Ltd.
Tech: C++ OdaSDK | Hyderabad, India |
| | <ul style="list-style-type: none">• The aim of the project was to optimize the loading of Floor Plans of various organizations on Bing• By removing unnecessary details, reduced the Floor Plans size by an average of 15% | |

Projects

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| Aug 2019 - June 2020 | Resilient Distributed Formal Concept Analysis (RDFCA)
Major Technical Practicum Project
Tech: Java Kafka ZooKeeper HDFS | |
| | <ul style="list-style-type: none">• Built a fault-tolerant distributed system for irregular applications like Formal Concept Analysis with Linear time Closed itemset Miner.• Currently uses only LCM, plan to extend to other algorithms too. | |
| Sep 2017 - Nov 2017 | CodeAssist
http://github.com/Lasers67/CodeAssist
Tech: Node.JS JavaScript Hackerrank API cURL HTML CSS | |
| | <ul style="list-style-type: none">• A platform for collaborative coding (real-time changes to a shared code), along with compile & run (with test cases optionally) and compilation errors, and fetches first result on Google for that error.• Chatbot, friends and one-to-one chatting is also implemented. | |
| Mar 2017 - May 2017 | OculoScripter
http://github.com/Shashwat-Garg/OculoScripter
Tech: Openframeworks C++ Code::Blocks | |
| | <ul style="list-style-type: none">• People suffering from ALS or paralysis are not able to express themselves to the open world. Aim was to make it easier for them to communicate with the outside world.• An openframeworks based C++ software, built on top of the open source project eyewriter-1.0 with a lot of modifications. | |