

Shubham Awasthi

Software Engineer III @Google

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[github](#) → [awasthishubh](#)

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SUMMARY

Experienced Software Engineer with a focus on designing and developing high-performance, low-latency systems. Passionate about solving challenging problems and improving system performance.

EDUCATION

Vellore Institute of Technology

Bachelor of Technology in Information Technology | CGPA: 9.15/10.00

Vellore, India

Jul 2017 – June 2021

EXPERIENCE

Google

Software Engineer III | Promoted from L3 to L4 in 2023

Jul 2022 – Present

- Member of Search Serving Infra, responsible for improving system efficiency of Google Search.
- Designed & developed high-performance infrastructure components of Query Result System for Google Search, serving over 500k queries per second.
- Experience with multi-threaded C++ development for low-latency applications.
- Designed & developed frameworks and tools for system latency analysis, including trace collection, critical path identification, and performance bottleneck analysis.
- Key Exposure:** High-Volume Low-Latency Systems, C++ Proficiency, System Performance Analysis

Microsoft India Development Center

Software Engineer | Promoted from L59 to L60 in 2022

Jul 2021 – Jul 2022

- Member of the Azure Commerce Data Platform, responsible for handling the commerce data.
- Developed a high-throughput data pipeline framework for processing and transforming large volumes of data within Azure data lakes.
- Designed & implemented a platform for automated data subscriber onboarding with integrated data pipeline validation, resulting in a significant reduction in manual effort.
- Key Exposure:** Large-Scale Data Processing, Distributed Systems, Data Lakes, Azure Data Factory

Google Summer of Code [🔗](#)

Haskell.org, 2020 & BMI, Emory University, 2021

- Developed a new feature for the hackage package builder that enables the building and extraction of code coverage details from Haskell packages.
- Built a frontend tool for creating workflows using directed graphs with features like autosave, undo/redo, and import/export.
- Key Exposure:** Haskell, Parallel Programming, Large Opensource Codebase, Frontend Development

JPMorgan Chase and Co. [🔗](#)

Software Engineer Intern (1 Month, 5 Months)

Jan 2021 – Jun 2021

- Enhanced Stride Trading Application for EMEA Region.
- Developed a web portal from the ground up, meeting the specific requirements of an NGO.
- Key Exposure:** Python, Shell Scripting, Angular

ACM-VIT Student Chapter [🔗](#)

Technical Director

April 2019 – May 2020

- Contributed, collaborated and mentored technical projects and students.

HIGHLIGHTS

- Received 20+ awards from peers at Google.
- Linkedin recommendations from manager and colleague. [🔗](#)
- Proficient in **C++** and **Python** with strong object-oriented programming skills.
- Contest Ratings: **LeetCode:** Guardian, 2,233 **CodeForces:** expert, 1823 **Codechef:** 5 stars, 2012
- Top Contest Performances:
 - 2020 ICPC Asia Gwalior-Pune Regionalist. India Rank: 57/510 teams, College Rank: 1
 - Ranked 271/15000+ at Google Kickstart 2021 round A
 - Ranked 156/19623 (College Rank: 1) at Codechef May Challenge 2020 Division 2
 - Ranked 44/17663 at Codeforces Round #674 (Div. 3)
- Won **First Place** and a cash prize of ₹1Lakh at **VIT Hackathon 2019** under Mobility Track.
- 800+ Contribution** on Github in 2018. Open Source Contributions to org: **Haskell.org**, **Zulip**, **Biojs**, **Hslua**