Rishabh Malhotra

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Education

Thapar Institute of Engineering And Technology — Patiala, Punjab
B.E. Computer Engineering — *May 2018 – May 2022*
Major Elective: Graph Theory — *CGPA: 7.6*

Experience

Mercari — Tokyo, Japan
Software Engineering Intern — *Feb'22 – Present*
- Migrated legacy PHP monolith into micro-service architecture written in Go
- Improved test coverage of go micro-service from **74% to 88%**
- Improved **custom warehouse allocation algorithm**, that now also takes care of additional corner cases.
- Worked on improving the Circle CI scripts which significantly reduced development time increase productivity
- Tech Stack *Golang, PHP, gRPC, Kubernetes, Terraform, Datadog, Spinnaker*

Microsoft Engage — India
Mentorship Program — *Oct'21 – Dec'21*
- In the top **400 students from 50000 applicants** & got a chance to be mentored by *a Software Engineer at Microsoft.*
- Was in the top 5% of the selected 400 students to get an opportunity to interview with Microsoft and **was offered a full-time role** after the interviews.
- Developed a full-stack application called Vita which connects college graduates, alumni, and faculty to revive the culture of mentorship and foster a more connected and engaged community.
- Integrated WebRTC based peer to peer video conferencing using simple-peer.
- Github Link : github/Vita, Live Link : Vita.app, Design Doc : notion/Vita
- Tech Stack *Typescript, React, Express, MongoDB, WebRTC*

Projects

Caucus: A real time collaborative editor GitHub Live Project — *May'21*
- Implemented **eventual consistency** using **CRDT's**(Conflict Free Replicated Data Type) for conflict resolution while merging two documents when users are edit simultaneously.
- **Increased the individual room size by 750%**, from 10 to 75, by migrating the CRDT server from WEBRTC(peer-peer architecture) to WebSocket (client-server architecture).
- Incorporated remote code execution, enabling users to compile & execute code in C++, Java, Python & GoLang.
- Employed Cheerio, a DOM parsing library to extract the questions from the scrapped codeforces problem page.
- Gathered over **5000 registered users, 400,000+ visits with over 235 stars & 13 contributors** on GitHub.
- Tech Stack *Typescript, React, NodeJS, WebSocket, PostgreSQL*

Code Forces Diary GitHub Live Project — *Dec'20*
- Developed a webapp that visualizes user data from codeforces public API into charts & graphs.
- Enables the user to look at a glance all their past code submission.
- Garnered **8000+ website visits and over 60 stars** on GitHub.
- Tech Stack *React, Redux, D3.js, Typescript*

Technical Skills

Languages: JavaScript, TypeScript, GoLang, HTML/CSS, C++, PHP, SQL, Python, LaTeX
Developer Tools: VS Code, Vim, Git, GitHub, Figma
Technologies/Frameworks: React, Express, Flask, Docker, Kubernetes, Nginx, Websockets, Webrtc
Coding Profiles: Leetcode, Code Chef