RISHABH MALHOTRA

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Education

Thapar Institute of Engineering And Technology   Patiala, Punjab
B.E. (Hons) Computer Engineering   *May 2018 – May 2022*
Major Elective: Graph Theory

Projects

Caucus: A real time collaborative editor [GitHub]   *May'21*
- Deployed conflict resolution using **CRDT's** while merging two documents when users are collaborating.
- Implemented user authorization using **OAuth 2.0 protocol** in NodeJS.
- Incorporated remote code execution, enabling users to compile & execute code in C++, Java, Python & GoLang.
- Gathered over **1000 registered users, 40000+ website visits with over 175 stars & 6 contributors** on GitHub
- Tech Stack *Typescript, React, NodeJS, Webrtc, PostgreSQL.*

Leetcode REST API [GitHub]   *Mar'21*
- Developed a RESTFUL API in NodeJS which sends Leetcode question data in form of JSON.
- Employed Cheerio, a DOM parsing library to extract the questions from the scrapped web page.
- Uses SQLite Database to store and retrieve the list of questions, based on various filters.
- Tech Stack *Selenium, Cheerio, NodeJS, SQLite.*

Code Forces Diary [GitHub]   *Nov'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.*

Experience

Genpact
Full Stack Developer Intern   *Aug'20 – Oct'20*
- Developed a custom form to streamline the process of entering data that needs to be analyzed.
- Accomplished file uploads, normalization & pre-processing its data before sending it to the spring micro-service.
- Tech Stack *Typescript, ReactJS, Redux, Material UI, Figma.*

Ernst & Young
Software Development Intern   *Aug'20 - Oct'20*
- Wrote python scripts to automate the data entry process.
- Used web-scraping to automate updation of over 20,000 business descriptions of publicly traded company.
- Tech Stack *Python, Pandas, BeautifulSoup*

Joplin
Open Source Contributor   *Jan'20 – Apr'20*
- Made a re-imagined inline markdown/WYSIWYG editor for Joplin using React.
- Refactored large legacy application code into reusable functional code.
- Tech Stack *ElectronJS, React, Typescript, SQLite, NodeJS.*

Technical Skills

Languages: JavaScript, TypeScript, GoLang, HTML/CSS, C++, SQL, Python, LaTeX

Developer Tools: VS Code, Vim, Git, GitHub, Figma

Technologies/Frameworks: React, Express, Flask, Docker, Azure, Nginx, Websockets, Webrtc