

Simranjyot Singh Gill

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EDUCATION

New York University, Courant

MS in Computer Science

New York City, NY

Aug. 2016 – May 2018

IIT Roorkee

B-Tech in Electronics & Communications Engineering

India

July. 2009 – May 2013

EXPERIENCE(7 YEARS)

Senior Member of Technical Staff

Thoughtspot

May 2018 – Present

Bay Area, CA

- Micro-front ends: Created a new web-application using modern tools (React, GraphQL etc) and developed a strategy to deploy this new application in production as a micro front-end inside the old application while features are slowly migrated to this new application and older features are being deprecated.
- Web application release management: Developed an architecture that decouples the Thoughtspot web application from other micro-services. Even though every customer runs the application on their separate instance, this new architecture allows updating the web application for any customer cluster using a central release management tool.
- Application performance: Improved the loading speed of Thoughtspot web application by a factor of 5 and reduced the size of the application by 30% without sacrificing any functionality.
- Visualization Filters: Developed frontend and GraphQL layer for a feature to allow filtering of data from UI based on conditions added by the user.
- SpotIQ monitor: Developed a monitor feature where users can opt to monitor certain business metrics inside Thoughtspot application and will get notified via an email once there is a change in any of those business metrics.
- Help customization: Designed and developed front-end and back-end for the help customization feature, which allows admins to modify the content displayed in Help Section inside the Thoughtspot web application.

Software Engineer

Samsung Research Institute

June 2013 - July 2016

Bangalore, India

- Samsung Account: Updated entire permission model of the Samsung Account android app. Redesigned Samsung Account android client for better user experience. Developed SDK for Samsung Account to allow third party apps to use Samsung Account for authentication.
- Cordova Plugins: Designed and developed Cordova plugins for Samsung S-Pen, Rich-Notification and Samsung Multi-Window. (<https://github.com/Samsung/CordovaPlugins>)
- Samsung Knox: Development and maintained Samsung KNOX android application, a trusted mobile security solution for enterprise. (www.samsungknox.com)

PROJECTS

Game Portal | <https://github.com/surgicalI/GamePortalReact>

Fall 2017

- Developed a full stack web app using React and Firebase DB, where players can play any multiplayer board game in realtime eg: Settlers of Catan, Sequence etc. The app had lot of social aspects such as adding friends, customizing avatars, chatting and video calls.

Structured Query Engine | <https://github.com/surgicalI/structured-query-engine>

Spring 2017

- Developed an Elasticsearch like query engine which can search complex queries, has realtime updates and exposes REST API. Also built a React movie recommendation app powered by this query engine.

PUBLICATIONS

A relationship between fines and violent crimes, IEEE - 2018 IEEE Fourth International Conference on Big Data Computing Service and Applications

TECHNICAL SKILLS

Languages: Javascript, Typescript, HTML/CSS, Java, Python, C/C++, SQL (Postgres)

Libraries & Frameworks: React, Node, Angular, Jest, Testing Library, Express, TailwindCSS, Material-UI, Android SDK, Firebase DB

Developer Tools: Git, Docker, Webpack, Rollup, PostCss, Jenkins, VS Code