

KAINAAT SINGH

PERSONAL INFORMATION

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SKILL SET

<i>Competent</i>	C/C++, Bash, Java
<i>Basic</i>	Rust, Scala, Python, SQL
<i>Frameworks</i>	SpringBoot, Hbase, Spark, Flask
<i>Database</i>	Hbase
<i>Version Control</i>	Git
<i>Operating System</i>	Fedora, Ubuntu, Windows
<i>IDE</i>	Android Studio, Eclipse
<i>Text Editors</i>	Vim, Notepad++

EXPERIENCE

Technology Intern
Jan - June 2019 American Express

PROJECTS

<i>Dungeon Runner</i>	It is a platform game created in Java and ported to Android. It involves guiding a sprite to jump between suspended platforms. The aim of the game is to collect stars in Level 1 and the golden fruit in Level 2. The player scores a point every time he collects a star/golden fruit. Falling off the platform ends the game. The sprite uses a pistol- sword to shoot enemies. https://github.com/svensevenslow/Dungeon-Runner
<i>Intelligent Traffic Lights</i>	As part of the Infosys Hackathon an Intelligent Traffic Lights system was created. Crowd-sourcing was used to collect real-time data using an Android application for GPS tracking. The crowd sourced data was sent to a locally hosted server written in Flask. The collected data was used to calculate the modified green and red light. The changed red and green light time was displayed in the terminal.
<i>Pool On Wheels</i>	It is a transport pooling system for hostellers. It consists of an Android application at the front end written in Java. Firebase has been used to maintain a real time database. This project is still a work in progress.
<i>Cinephile</i>	It is a movie recommendation system. The implementation of this system began with the Collaborative filtering approach in which recommendations are based on similarity of items or similarity among users tastes. Among many collaborative filtering techniques, Matrix Factorisation has proven to be effective in this field. One such matrix factorisation algorithm is the Alternating Least Squares which has been utilized in this system. This algorithm is efficient in tackling the Cold Start problem and Sparse Matrix data
<i>Smart Monitoring</i>	Smart Monitoring, an industry-leading risk management approach, transformed a process that previously relied on manual testing to create an

integrated data-driven platform that detects and addresses potential risks in real time. I worked on this as a part of my internship in American Express

OPEN SOURCE EXPERIENCE

<i>gnome-todo</i>	<p>Correcting task alphabetic indexing with accentuated characters: Gnome-todo now correctly places accentuated characters such as á, à, â after a instead of placing after z.</p> <p>Hide lists in todo.txt file from other applications: Lists made in gnome-todo in the todo.txt file start with h:1 to hide them from other applications.</p>
<i>gnome-music</i>	<p>Implement playlist ordering in views: Playlists are now displayed in order of creation (newest first) in the playlist dialog and (oldest first) in the playlist view, where applicable, following the design document.</p>
<i>mozilla/grcov</i>	<p>Add tests for check_gcov_version: The test is written so that it fails on Windows and passes on Linux.</p>

PROGRAMMING PROFILE

<i>Github</i>	<i>svensevenslow</i>
<i>Gitlab</i>	<i>svensevenslow</i>
<i>Codechef</i>	<i>svensevenslow</i>

EDUCATION

<i>B.tech Computer Science</i>	<i>2016-2020</i>	<i>Punjab Engineering College</i>
	<i>CGPA: 8.4</i>	
<i>Percentage</i>	<i>2015-2016</i>	<i>Class XII(CBSE)</i>
	<i>96</i>	
<i>CGPA</i>	<i>2013-2014</i>	<i>Class X(CBSE)</i>
	<i>10</i>	

OTHER INFORMATION

<i>Certifications</i>	Certificate of Training in Android App. Development with Wingfotech Pvt. Ltd. in Assoc. with NSSC, IIT-Kharagpur.
<i>Youtube Channel</i>	Tiny Tech Tales is my Youtube channel where I upload various videos on how to use Linux, Vim and solve programming problems.