






Rohit ASHIWAL

Computer Science Junior

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Someone who is intrigued by computers, System Software hobbyist with interest in field of distributed programming and core fields of Computer Science

EDUCATION

2017-Present Computer Science and Engineering, Indian Institute of Technology Roorkee
2007-2017 St. Anselm's North City, Jaipur

SKILLS

Programming	Python, Java, Kotlin, Go, JavaScript
System Programming	C/C++, Rust
Web Technology	React.js, HTML5, CSS3, Bootstrap
Utilities	Git, Shell Scripting, Vim, SQL, \LaTeX

OPEN SOURCE

GIT FOR WINDOWS

FEB' 19 - PRESENT

 git-for-windows/git

MinGit in Windows comes without gzip bundled inside. git-archive uses "gzip -cn" to compress the commit tree but for this to work gzip needs to be present on the host system. My work was to add minimal code to eliminate the need for this gzip dependency.



GIT

FEB' 19 - PRESENT

 git/git

The tests in 't3600-rm.sh' were written long time ago, and has a lot of style violations, including the mixed use of tabs and spaces, not having the title and the opening quote of the body on the first line of the tests, and other shell script style violations. I added helper function to make errors verbose and modernized style.



PROJECTS

APPI

JAN' 19 - PRESENT

 The **backend** of Appetizer

A campus app that helps in reducing food wastage within the campus. My work was improve the **UI** of the "menu", the interface through which wardens and mess secretaries add mess week menu, adding **Django** models for toggling tasks in android app and processing **csv** and **xsl** file for attendance marking.

TRIANGlify

JAN' 18 - PRESENT

 mdg-iitr/trianglify

Highly customizable library to generate beautiful triangle art views for android, I improved the saving feature in **App** and [WIP] make a live wallpaper app out of this lib.

MDG-PLAY

AUG' 18 - PRESENT

 mdg-iitr/mdg-play

A web app that handles request over local-network and plays music. The backend of this app was written in **Go** and frontend in **React**.

RELEVANT COURSES

OBJECT ORIENTED PROGRAMMING

JUL' 17 - NOV' 17

In depth course on fundamentals of Object Oriented Programming with an introduction to languages such as Java and C++.

OOP Java C++

DATA STRUCTURES

JAN' 18 - MAY' 18

An introduction to fundamentals data structures used in programming along with basics of Number Theory.

Data Structures Algorithm Number Theory

OPERATING SYSTEMS

JAN' 19 - MAY' 19

A course about Operating Systems, deals with topics such as Memory and Resource Management, Process and Resource Scheduling, Device Management. We also worked on implementing a new kind of scheduler for the Linux kernel.

C Linux Kernel

DATABASE MANAGEMENT SYSTEMS

JUL' 19 - NOV' 19

Course on DBMS, its architecture, data models, data schemas, data independence, ER models, relation models and relational algebra, relational design with introduction to advance topics such as, transaction and concurrency, backup and recovery.

Relational Algebra SQL C

WORK

May' 19 Present	Student Software Developer, GIT, Google Summer of Code Google Summer of Code is a global program focused on bringing more student developers into open source software development. <ul style="list-style-type: none">› Worked with Git to improve consistency of sequencer commands› Added requested features to git-for-windows
May' 18 Present	Hacker, INFOSEC, IIT Roorkee InfoSec is a group of students that spread awareness about information security. <ul style="list-style-type: none">› Spread awareness about Information and Cyber Security› Conduct CTFs, viz, backdoorCTF, n00bCTF
Jan' 18 Jan' 19	Developer, MOBILE DEVELOPMENT GROUP, IIT Roorkee MDG is a small group of students that foster android development in the campus premise. <ul style="list-style-type: none">› Spread knowledge about android and related technologies› Conduct open lectures for campus students
Jan' 18 Mar' 18	Android Developer, COGNIZANCE, IIT Roorkee Cognizance is the official technical festival of IIT Roorkee. <ul style="list-style-type: none">› Improved UI and UX of the Android app.› Worked on REST APIs

POSITION OF RESPONSIBILITY

Dec' 18 Jan' 19	Mentor, WINTER OF CODE, MDG WoC is an event, just like GSoC, conducted jointly by MDG and SDSLabs. <ul style="list-style-type: none">› Mentored a bunch of students to make android application during their winter holidays› Interviewed selected students
Dec' 18 Jan' 19	Organizer, DROID WARS, MDG Droid Wars is an event conducted by MDG where students make android applications based on predeclared theme. <ul style="list-style-type: none">› Mentored some students› Conducted interview of selected students