

# Aditya Rana

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## EDUCATION

### NIT TRICHY - B.TECH

MAJOR : INSTRUMENTATION AND  
CONTROL ENGINEERING

MINOR : COMPUTER SCIENCE AND  
ENGINEERING.

Expected : May 2022

Cum. GPA: 7.91/10

## LINKS

Github: [ranaaditya](#)

LinkedIn: [AdityaRana](#)

## COURSEWORK

### UNDERGRADUATE

Data Structures And Algorithm

Operating Systems

Microprocessors and Microcontrollers

Computer-Networking

Information-Security

Compiler-Design

### INDEPENDENT

Advanced Android Development

[\(certificate\)](#)

## SKILLS

### PROGRAMMING LANGUAGES

•Java •Kotlin •C • C++ •GLSL •Go

•Processing •Rust •Python •javascript

### APP DEVELOPMENT

•Android Studio •Android Jetpack

### FAMILIAR

•Linux •Git •Android OS •OpenGL-ES

•Gradle • Google Firebase •Google Maps

•gRPC •REST API

### TOOLS

•Lex •Flex •Yacc •Bison

•adb •fastboot •systrace

## EXTRAS

•Conducted Android App Dev and  
Data-Structures and Algorithms  
Workshops attended by 200+ first year  
students.

•Active member of National Service  
Scheme which helps needy people in  
education and finances

•Active student-member of International  
Society of Automation (ISA)

## EXPERIENCE

### CISCO SYSTEMS INDIA | Software Engineering Intern

May 2021- July 2021 | Bengaluru, IN

- Worked with Mobility Engineering Team. on 4G, LTE and various interfaces of 3GPP architecture.
- Written a GTP protocol library for S5 and S11 interfaces of 3GPP architecture from scratch in Golang.
- My work (GTP library) has been merged in 5G Core

### GOOGLE SUMMER OF CODE 2021 | PROJECT MENTOR

March 2021- Present | [Processing Foundation](#)

- Maintainer Processing's Open-Source Graphics tool for Android ([project link](#)).
- Maintaining [Processing's native-mode](#) and [p5xjs website](#)
- Mentored a student in GSoC'21 for [p5xjs website](#)

### GOOGLE SUMMER OF CODE 2020 | STUDENT DEVELOPER

May 2020- Sept 2020 | [Medium Blog](#) | [Processing Foundation](#)

- Worked on Processing's Open-Source Graphics tool ([project link](#)).
- Rewritten [Processing's native-mode](#) and added support for native binaries for the multiplatform-support of mobile devices using Kotlin/Native.
- Upgraded the Gradle to Kotlin DSL based Gradle Build System.

### DELTA FORCE | [WEB LINK](#) | WEB TEAM OF NIT TRICHY

Aug 2019 - May 2021 | Trichy, IN

- As a part of Android Team, build apps for various fests of the college.
- Represent NIT Trichy in various Hackathons and competitions.
- Responsible for maintaining the [college website](#).

## PROJECTS

### DALAL STREET | [PLAYSTORE LINK](#) | ANDROID | GRPC

- Multiplayer Virtual Stock Market game hosted over a week during [Pragyan](#), annual techno-management fest of NIT Trichy.
- Part of the team that made android app completely written in Kotlin and **datastreaming** using **Golang** and **gRPC** for the game
- All code reviewed, perfected, and pushed to production ([project link](#)).

### FESTEMBER APP | [PLAYSTORE LINK](#) | RXJAVA | MVP | RETROFIT

Aug 2019 - Present

- Worked on the official app for annual cultural fest of [Nit Trichy](#).
- Downloaded and used by 5000+ active users during the fest.

### SPYZIER | [PROJECT LINK](#) | ANDROID | FIREBASE | MEDIAPROJECTION API

Jun 2019-Jul 2019

- Parental Control Android App where parents can monitor the activity of their child like **remote viewing**, **location tracking**, **contact details**, **call logs**, etc.
- Free version of many high-cost paid Parental apps (**100+ stars on GitHub**)

## ACHIEVEMENTS

2015	top 0.2%	Received letter of appreciation for being in top 0.2 % in cbse board.
2021	2nd /100	Won <a href="#">Etherpunk</a> bounties worth \$500 in 1inch category