Ayush **Goyal**

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Exp**eriences**

Finbox
Bangalore

BACKEND DEVELOPER
May 2018 - June 2018

- Restructured a complete application to aggregate financial data from user's email account.
- Retrieved user's top 5 postal addresses and generated user's account statements based on bank transactions over the credit-debit period including e-commerce, e-wallet spending and other services.
- Brought down the execution time for data aggregation of a single user from **1080 seconds to 100 seconds**.
- Created a back-end server for **secure, private file sharing** using Django and Amazon S3 to serve confidential files to the investors.

Google Summer of Code

OpenMRS
May 2017 - July 2017

- Hacked through the summers on the Android Client, establishing feature parity with the web client and making UI improvements.
- Incorporated in-house feedback and bug report system.
- Used test driven development and agile practices to make the client more efficient. **GSoC Report**

Witworks
Bangalore

MARVIN DEVELOPER
Mar. 2017

- Enabled watch to wake up on saying "Hey Marvin" keeping battery usage minimal.
- Integrated **PocketSphinx** in the watch's custom ROM for **speech recognition**.

Com**petitions**

2nd INAE Youth Conclave
Kharagpur

WINNER
Aug. 2018

- Secured **first** prize for the event, Digitization of Agriculture in the **Indian National Academy of Engineering** youth conclave.
- Created a mobile application based fertilizer recommendation system for farmers.
- This app estimates soil nutrients using linear regression on soil legacy data provided by NBSSLUP and farmer's location.
- Implemented a chat interface to connect farmers with crop experts. Also, optimized application to work on low end phones. **GitHub** | **PlayStore**

Angelhack Hypertrack Challenge
Bangalore

WINNER
June 2018

- Developed an Android application that lets users create treks, buy, sell as well as create a community of trekkers
- The trek creater feature lets users add a treasure hunt that makes user's trekking experience rewarding. **GitHub**

Inter IIT Tech Meet
IIT Kanpur

SECOND RUNNER-UP
Mar. 2017

- Secured **bronze** medal for the event Dashboard in the 5th Inter IIT Tech Meet.
- Designed and developed a dashboard for IIT Kharagpur. It enables a student to sync class timetable with Google calendar, book and share cabs, buy and sell things, browse through previous year question papers etc.

Microsoft Code.Fun.Do
Hyderabad

FIRST RUNNER-UP
Nov. 2016 - Feb. 2017

- Among **top three** teams in the online hackathon, **First runner-up** in the on-campus hackathon and qualified for the All India finals.
- Used **image processing** to engineer a smart digital solution for farmers that can detect diseases in plants.
- Incorporated a platform to house an integrated marketplace for farmers that lets them interact with potential buyers, hence eliminating the middleman. **GitHub** | **PlayStore**

Digital Ocean Cloud Hack
On-line

SECOND RUNNER-UP
Oct 2016

- Secured **third** prize **worldwide** in the hackathon organized by Digital Ocean.
- Developed a telegram chat bot that allows a user to subscribe to social media updates, download You Tube videos, upload documents temporarily on the cloud etc, from within the application. **GitHub**

Edu**cation**

Indian Institute of Technology, Kharagpur
Kharagpur, India

B.TECH. IN AGRICULTURAL AND FOOD ENGINEERING, CGPA - 6.66
July. 2015 - Exp. April. 2019

Projects

Assimilation
IIT KHARAGPUR

- **Single-handedly implemented** an Android application and a web app for the **official attendance system** of Assimilation program of IIT Kharagpur, for the session 2018-19.
- The assimilation program is the official induction program for 2nd year students to introduce them to the hostel culture and various other activities of the campus.
- The app has over 800+ downloads and was **trending on #5** in the events category on playstore. **GitHub** | **PlayStore**

TraffLite
KHARAGPUR POLICE

- Designed and developed a system for **Kharagpur police** to quickly verify ownership of the vehicle and its documents.
- Developed a webapp which generates a unique QR code for every registered vehicle.
- Implemented an Android application which retrieves vehicle information from the QR code.

Commiter
SELF

- An attempt to **break down GitHub** by adding a huge number of commits.
- The aim of the project was to know what is the **maximum number of commits** GitHub can hold.
- Till the project was taken down by GitHub, I was able to find out **three issues with GitHub**. **GitHub** | **Blog** | **Talk**

WhatsBot
SELF

- A WhatsApp chatbot developed using python's selenium module.
- Created **API for sending/receiving messages** through WhatsApp.
- It uses WhatsApp web to let users subscribe to twitter handles and receive the latest tweets on WhatsApp. **GitHub**

QuickMail
SELF

- A python script which sends **free sms notifications** to user when a **new E-mail** arrives in Gmail inbox.
- The refresh frequency can be easily set by the user with the help of cron job. **GitHub**

CheckLamb
SELF

- A script to forward new emails from Gmail inbox to a channel on slack. **GitHub**

Naarad
SELF

- A news aggregator written in python which uses Facebook's graph API to display important updates from facebook page of IIT Kharagpur's societies and clubs. **GitHub** | **Website**

Extracurricular Activity

- **Advisor**, at *Kharagpur Open Source Society*.
- **Maintainer**, at *MetaKGP* an Open Source organization at IIT Kharagpur
- Organized IIT Kharagpur's the **first Open Source summit** at Kshitij, Asia's largest techno-management fest with a participation of 1000+ students
- Organized **Kharagpur Winter of Code**, a month-long event that introduces and helps student around the country to contribute to Free and Open Source Software. It had a participation of **900+ students and 50+ projects** in its first installment and **2000+ students** in the year after.
- Conducted an introductory workshop on Open Source at **National Institute of Technology(NIT) Sikkim** with a participation of **200+ students**.