

# Amit Upadhyay

Coder, Backend Engineer, Open Source enthusiast & always a learner

I love programming, I write them in Go, Java, Python, have some experience of working with C++, JavaScript, C# depending on the requirements. Looking for time to dive deep in Rust. I love writing strategy based games and so data structure and algorithm fascinates me. I got good experience in end-to-end software developments too. I love making servers and scaling them. I have made some software products which are present in the market. To know more about me and my projects please visit <http://binomial.me> or read below

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🐙 [github.com/amit-upadhyay-IT](https://github.com/amit-upadhyay-IT)

## WORK EXPERIENCE

### Senior Software Engineer Trivago

11/2021 - Present

Düsseldorf, Germany

Achievements/Tasks

- Working on adapting services from request response architecture to event driven architecture
- Migrating micro services to go services.

### Backend Engineer Ola Cabs

08/2019 - 08/2021

Bangalore, India

Achievements/Tasks

- Working on payment services at Ola. Project details are preset on next page

### Software Engineer ClearTax

07/2018 - 08/2019

Bangalore, India

Achievements/Tasks

- Worked on tax filing software.

### Edelweiss Financial (Intern) Node.js developer, Researcher

06/2017 - 08/2017

Mumbai

Achievements/Tasks

- Developed an optimized CRM system and moved dependency of CRM to open source platforms. And Increased the performance to 33x (33 times faster)

## MY PRODUCTS ON PLAYSTORE

### Touch Me | Color Shades (Game) (12/2016 - Present)

- An interesting game which is based on your reflexes (how fast do you react?), hand-eye coordination and visual stimulus.
- <https://play.google.com/store/apps/details?id=com.amitupadhyay.touchme>

## EDUCATION

### Bachelor of Engineering(B.E) Army Institute of Technology

07/2014 - 06/2018

7.46 CGPA

Branch

- Information Technology

## LANGUAGES/SKILLS

Go

Java

Python

C++/C

JavaScript

Data Structures & Algorithms

Docker

Flutter

Android

gRPC

REST

Redis

NoSQL

MySQL

Git

Node.js

RabbitMQ/Kafka/SQS

.NET

AWS

Firebase

## OPEN SOURCE CONTRIBUTIONS

### 1. Dvonn Game and it's Bot (04/2020 - Present)

A 48 hexagonal board game, [codebase](https://github.com/amit-upadhyay-IT/dvonn-bot): <https://github.com/amit-upadhyay-IT/dvonn-bot> [codebase](https://github.com/amit-upadhyay-IT/dvonn-bot). I have also developed the ios and android apps for same.

### 2. WordsTrie (07/2020 - 07/2020)

Search the similar stock name from a list of stock names, [codebase link](#)

### 3. Crypt-git (Make GitHub private) (09/2017 - 09/2017)

a command line utility written in node.js which enables to work privately on your GitHub repo for Free. -> <https://github.com/amit-upadhyay-IT/crypt-git>

### 4. GetLocationFast (04/2017 - 07/2017)

The fastest ever "displaying users current address" library available here -> [github.com/amit-upadhyay-IT/GetLocationFast](https://github.com/amit-upadhyay-IT/GetLocationFast)

### 5. StackOverflow Contributions

Made contributions to the community in Firebase (Top 5% badge), Android (Top 10% badge) and Java (Top 20% badge) -> [www.stackoverflow.com/users/5411888/amit-upadhyay](https://www.stackoverflow.com/users/5411888/amit-upadhyay)

### 6. Binomial.me (Technical Blog)

So this is Binomial an awesome platform to deliver tutoring services on, that one would actually love to use. Link: <http://binomial.me>

## HACKATHON PROJECTS

### Infosys Hackathon - 1st rank (09/2016 - 09/2016)

Secured 1st position, among 40 teams from different colleges.

## PROJECTS...

### Smart Pay (08/2017 - 11/2017)

An app capable of doing transactions in offline mode securely. Enabling merchants to offer alternate payment solutions to their customers to drive cashless transactions.

## EDUCATION

### XII (Senior Secondary), Science

CBSE Board (Kendriya Vidyalaya O.F Dum Dum, Kolkata)

04/2013 - 03/2014

84%

### X (Secondary) [2012]

CBSE Board (Kendriya Vidyalaya O.F Dum Dum, Kolkata)

04/2011 - 03/2012

9.4 CGPA

## FEW PROJECTS DONE IN CLEARTAX

### E-verification of people IT returns.

- This feature enables our users on cleartax and taxcloud to know the e-verification status of their income tax return. Also, it recursively checks the status and communicate the result to the end users.
- Please talk me if you wish to understand the design and algo behind this.

### Form 26AS parsing

- This is a pdf form which contains all TDS details. Wrote a parser in C# tested is against 10k+ PDFs with almost 100% accuracy.

### Referral on ClearTax

- This feature enables users to refer other people to do a e-filing on cleartax.in.
- Again, I would love to talk about its design.

### Generating Income Tax return form (ITR1, ITR2, ITR3, ITR4)

- This is the backbone of our product. Each year govt. releases new ITR forms.
- I have written code for year 2019 ITRs to generated XML forms which gets submitted to the govt. for their successful e-filing.

## HOBBIES/INTERESTS

Automobiles

Deep Learning

Running

Writing Games

Travelling

## A FEW PROJECTS AT OLA

### 1. Change destination feature for all customers (03/2020 - 04/2020)

*Designed and implemented this feature, where users can change the destination while the ride is going for India and international market.*

### 2. Driver tipping (04/2020 - 05/2020)

*Designed and implemented the driver tipping flow for our customers, on the ride end the user can choose to tip the driver*

### 3. Payment Gateway Integrations

*Integrating with different payment gateway vendors eg: PhonePe Paytm, PayU (visa one click), etc.*

### 4. Platform for deciding transaction gateway at runtime (03/2021 - 04/2021)

*Developed arbitration platform, which checks the score of each of the payment gateways and picks up the better one for doing transaction auth and capture in international market. It is pipeline based platform*

## CERTIFICATIONS

### CodeChef Certified Data Structure & Algorithms Program (03/2018 - Present)

link- <http://binomial.me/me/myccdsap.pdf>

### ANDROID DEVELOPERS (07/2016 - Present)

link-

<https://www.edureka.co/lms/certificate/f63a34aaaa5d145872d826fad7609e7d>