

## Mukul Hase

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## EDUCATION

## IIIT HYDERABAD

BACHELOR'S IN COMPUTER SCIENCE  
& ENGINEERINGGrad June 2018 | Hyderabad, India  
CGPA: 8.34/10

## NARAYANA JUNIOR COLLEGE

Grad. May 2014 | Hyderabad, India  
Percentage: 93

## DELHI PUBLIC SCHOOL

Grad. May 2012 | Hyderabad, India  
CGPA: 10/10

## AWARDS

2017	1st Place	<a href="#">NBO Hackathon</a>
2016	2nd Place	<a href="#">Code.Fun.Do</a>
2018	Dean's List	IIIT 4th Year
2016	Dean's List	IIIT 2nd Year
2015	Dean's List	IIIT 1st Year

## SKILLS

## PROGRAMMING

Languages (common):

Python • Javascript (&amp; variants)

Languages (comfortable):

• Shell • Matlab • CSS • Scheme • Swift •  
Obj-C • C++ • Racket • Rails • C • PHP •  
Assembly • Java

Familiar Technologies:

React • OpenCV • AngularJS • MySQL •  
Postgres • jQuery • NumPy • Django •  
Android • Ionic • Git • Unreal Engine •  
Chrome Extensions • PyQt • PyPI •  
Socket Programming • Keras • iOS •  
MeteorJS • Cordova/Ionic

## COURSEWORK

## UNDERGRADUATE

Computer Vision  
Statistical Methods in AI  
Complexity and Advanced Algorithms  
Game Design and Engineering  
Artificial Intelligence  
Computer Networks  
Operating Systems  
Database Systems  
Functional Programming  
Principles of Information Security

\*Eligible to work in USA(Citizen)

## EXPERIENCE

## SOFTWARE DEVELOPER AT MICROSOFT

June 2018 – Current | Hyderabad, India

WORKED ON WHITEBOARD SHARING FEATURE IN MSTEAMS

Developing UI/UX in their Desktop App. (React, GraphQL, Electron, Apollo)

END-TO-END DEVELOPMENT OF EDGE-BASED COMPUTER VISION MODELS  
FOR DOCUMENT CLEANUP, CROPPING AND CLASSIFICATION

- Created a parametric system to generate realistic synthetic images of documents. (Used for training and scoring)
- Wrote various Python scripts for data collection, filtering, processing datasets
- Created a pipeline for data-collection and training on AML
- Created different voting, annotation and analysis tools.
- Ported desktop models to ONNX/CoreML/TFLite and implemented models on Native Android & iOS.

NATIVE MOBILE APP DEVELOPMENT(ANDROID AND IOS) IN OFFICE LENS

- Worked on the Camera stack
- OfficeLens Re-architecture (Kotlin)
- Wrote GPU Shaders (Metal & OpenGL ES)
- Performance improvements
- Created custom UI Animations

## SWE INTERN AT FREEAGENT SOFTWARE (Bay Area startup)

May 2017 – July 2017 | Saratoga, CA

Full-stack web technologies like React, GraphQL, Sequelize, Express, Apollo

## PROJECTS

## PYTHON LIBRARY FOR WHATSAPP WEB

WIDELY USED 1500+ STARS

[github] Capable of running bots while the phone is able to independently operate. Deployed on PyPI.

## TWINDER MICROSOFT CODE-FUN-DO WINNER

Localised and personalised tweet feed with sources and reference suggested based on tweet's context. Swipe left to discard, right to read more(Tinder)

## 3-SWEEP COMPUTER VISION DESKTOP APPLICATION.

[github] Let's you drag-select objects, and manipulate your 2D image in 3D

## PEBBLE MESSENGER

SHAKE2TALK OVER FACEBOOK CHAT ON SMART WATCH

Had 260 Users. Implementation involved handling around 260 active facebook sessions on one AWS server and fetching messages from each account in smart ways (ex: caching).

## FACEBOOK CHATBOT(KNOWN AS CLEVERFB)

CHROME EXTENSION TO SIMULATE USER TYPING

[github] Users can use this on their friends to take over their conversation. Deployed as a chrome extension on the chrome web-store. 55 weekly users on average(Made without use of messenger API).

## PRICE-COMPARISON SYSTEM

PRICE-COMPARISON SYSTEM FOR SHOPPERSEXRESS.IN

[link] Scrapes data from multiple online stores(flipkart, amazon, snapdeal).

MISC. PROJECTS • Feature-filled WebGL 3D Game • IIIT's event portal, Gives everyone a personalized calendar based on their "groups", integrated with college's ldap authentication. • Ultimate TicTacToe AI Solver • File Downloading Server(TCP/UDP) • Shell in C