

# Abhishek Tiwari

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## Work Experience

### AppyHigh

ANDROID DEVELOPER

[Hyderabad, India](#)

Aug. 2020 - Present

- Handled migration of existing API communication in Video Calling app to web sockets.
- Fixed crashes in production apps.
- Minimized API calls in the overall application.
- Technologies: Android, Firebase, Web Sockets

### SPACENOS

ANDROID DEVELOPER

[Work From Home](#)

April 2020 - June 2020

- Developed dating app based on Firebase Firestore and Cloud Functions. Worked on In-app updates and payment integration.
- Revamped existing app UI and implemented a smooth interface.
- Technologies: Firebase, JavaScript, Cloud Functions, Razorpay

### Cppsecrets.com

PYTHON DEVELOPER & CONTENT WRITER

[Work From Home](#)

Jan. 2020 - Mar. 2020

- Developed module for implementing Google Tasks API in python via the command-line interface.
- Wrote tutorials and published them on the Cppsecrets.com website.
- Technologies: Python, Google Tasks API

### Digital Corridor

FULL STACK DEVELOPER

[Work From Home](#)

Aug. 2019 - Jan. 2020

- Developed E-commerce android application and website for grocery vendor with Paypal and Paytm payment gateway integration along with a vendor console to manage orders and delivery.
- Developed Wedding Planner android application and website which enables all the wedding planners and decorators to register and make their services available online.
- Technologies: Firebase, PHP, MySQL, JavaScript, HTML/CSS

## Education

### Indian Institute of Information Technology, Kalyani

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING

[Kalyani, West Bengal](#)

Aug. 2017 - May 2021

- CGPA 9.33

### Kerala Samajam Model School

HIGHER SECONDARY

[Jamshedpur, Jharkhand](#)

- Percentage in Class XII - 97.25
- Percentage in Class X - 98

## Projects

### MyMovieList

ANDROID, FIREBASE, CLOUD FUNCTIONS, JAVASCRIPT, RETROFIT, REST API

[www.mymovielist.digital](http://www.mymovielist.digital)

June 2020 - Aug. 2020

- Android App to browse through thousands of movie titles, add them to watchlists and share them with friends.
- Users can set the visibility of their watchlists to public or private. Public watchlists are visible to the entire community and other users can comment on them.
- Users can level up their profile and earn interesting badges whenever they share their watchlists with their friends, gain followers, earn views, etc

### Random Video Call

ANDROID, AGORA SDK, FIREBASE, JAVASCRIPT, GOOGLE ADMOB

Jul. 2020

- Users can get matched randomly using a backend algorithm when they join the waiting queue.
- If no one is online, the algorithm waits for 15 seconds for someone to join in before quitting the search

### Readability Score Of Hindi Text By Semantic Analysis Of Grammar

NATURAL LANGUAGE PROCESSING(NLP), PYTHON, MACHINE LEARNING, NEURAL NETWORKS

Sept. 2019 - Jul. 2020

- The goal of this project was to achieve high accuracy dependency parsing of Hindi Treebanks made with AnnCorra specifications as well as find a way to give readability score to Hindi documents based on various Linguistic Features.
- Collected data for readability on a scale of 1 to 5 and then using other factors such as average word length and frequency of different tags in the sentences, predicted the readability of the sentence.

## Java FX Code Editor

JAVA, JAVA FX, SCENE BUILDER

March 2019

- An Editor for Java with default dark mode which automatically switches to light mode if the user makes a syntax error.
- Also formats the error stack trace and displays in a beginner-friendly manner.

## AI powered Depression Detection

ARTIFICIAL INTELLIGENCE, MACHINE LEARNING, ALEXA SKILLS

Feb. 2019

- Detects symptoms of depression in the user through Alexa using sentiment analysis of the user's social media profile. In this, the Alexa skill will recommend certain solutions to encourage the user to interact and lighten his mood.
- Sends warning messages to trusted contacts in case of an emergency or certain trigger patterns.

## Bechdel Test for Movies Using Computer Vision

OPENCV, PYTHON, NLP, DEEP LEARNING, FACE RECOGNITION

Jun. 2019 - Aug. 2019

- Used facial recognition through HAAR Cascade from the OpenCV library in Python to detect two women sharing the same frame. The gender of the detected faces is determined through deep learning using a simple Convolutional Neural Network which was trained on the Adience Dataset.
- Finally used NLP on the movie script to determine the topic of conversation.

## Smart and Secure Shopping Cart

INTERNET OF THINGS, RASPBERRY PI, FIREBASE REALTIME DATABASE, RFID, ANDROID

Oct. 2018

- Reduces the time spent in queues in shopping malls by introducing a cart with automatic payment and inventory management.

## GPA CALCULATOR

ANDROID, FIREBASE DATABASE

Jun. 2018 - Aug. 2018

- An android app exclusively for the students of IIIT Kalyani to calculate their SGPA and CGPA with cloud storage.

## Skills

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<b>Programming Languages</b>	Python, Java, C/C++, PHP, JavaScript, HTML, CSS, Assembly
<b>Platform</b>	Android Studio, Google Cloud, Kubernetes, Firebase, Tensorflow, Adobe XD, Figma, Unix
<b>Development</b>	Android, Flutter, Flask, MySQL, MongoDB, Git, PyQt, JavaFX, OpenCV, Numpy, Pandas

## Open Source Contributions

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### Aerospaceresearch.net - VisMa

PYTHON, PYQT5

Jan. 2019 - April. 2019

- Submitted proposal for GSoC '19

## Extra Curricular

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- 2019 **Second Runner-Up**, CodeUtsava 3.0, NIT Raipur Hackathon
- 2018 **Best Hardware Hack**, Hack-A-BIT, BIT Mesra Hackathon
- 2018 **Runner-Up**, WEBNET 2.0, IIIT Kalyani Web Developer Hunt
- 2017 **Principal's Award**, KSMS, All Round Performance
- 2016 **Runner-Up**, Inter-School Comic Strip Competition
- 2015 **State Rank-1 & Global Rank-7**, SilverZone English Olympiad
- 2015 **State Rank-4**, SilverZone Maths Olympiad