

# Piyush Agrawal

## Software Developer

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### Summary

I'm software developer by title but a curious engineer by mindset. I like to know about everything which I see especially if it related to computers. In my bachelor education, I have tried several things, from core softwares to electronic components. I believe language is just a tool to solve a problem. Understanding the problem in the correct way is the actual challenge in computer science.

### Work experience

Backend Engineer 2019/07 - Present

Swapcard

Initiating the new Infrastructure as a Code of backend API

Software Developer 2017/11 - 2018/08

Indian Council of Medical Research(ICMR)

Built India's first Medical Research Equipment repository.

Google Summer of Code Student

FOSSASIA

Decoupled the whole event server. Wrote the backend from scratch with the team/

Web Developer Intern 2016/06 - 2016/08

BioHiring

Designed and Crafted the application structure of their MVP. Created AngularJS and Laravel based project set up with NodeJs as the proxy between them. This MVP was very helpful to improve the existing manual process that time.

Software Development Intern 2015/12 - 2016/01

TheSmartTrolley.com

Created Control Panel in AngularJS for managing orders, customers, offers, etc. Creates RESTful APIs for the control panel in Laravel.

### Education

Bachelor of technology 2015 - 2019

Bharti Vidyapeeth College of Engineering

CGPA: 8.5/10, subjects: Algorithms and Data Structures, Database Management, Operating System, Control Systems, Software Engineering, and more.

### Projects

### Skills

Python, Javascript, Golang, C++, C;  
Nodejs, Electron.js, Django, MongoDB,  
Kubernetes, Terraform, Cloud Native,  
Helm, Jenkins, AWS, GCP;  
Computer Vision, NLP, Numpy, Panda;  
API Development, LaTeX

### Achievements

Two times winner of Facebook Dev  
Community Challenge: 2018 & 2019  
Celestini Contest by the Marconi Society  
2019 Winner. Developed IoT based  
solution for women safety.  
Two Times Smart India Hackathon  
Winner ( Biggest Hackathon of World)  
Bachelor Major project awarded among  
the best projects in University.  
India Skills 2017 bronze winner under  
web designing skills. First in Regionals.  
Winner of other 3+ hackathons.

### Activities

Open Source Mentor for Google Summer  
of Code and Code-in programs  
ICPC Regionals Participant  
Was Captain of Mozilla Campus Club  
Initiated the open source culture in my  
campus. Organised several meet-ups for  
GSoC and Outreachy programs.

**Aerial Vision:** Tracking people on the aerial vision received from drone

Tracking people on the aerial vision received from drone°A project that is among the best projects awarded by my university. It can track people on aerial vision captured from the drone with re-identification with the help of the tracker, DeepSort.

**DonorFu:** Connecting potential donors with Facebook group posts requesting blood donations

A project that won Facebook Dev Community Challenge is a messenger and a talking bot over phone call to connect potential donors with blood requester.

**H2:** A lightweight browser to watch/embed things on picture-in-picture mode

An electron app that allows you to watch many things on picture-in-picture mode throughout your apps and workspaces. °Extended, 3-components based model to implement plugins easily.

**LatexGo:** Using the power of Web

This project is motivated with the simple question that, if we can mine bitcoins on browsers then why not compile programs in it?

This project uses one of the great tools, "emscripten" to convert the LLVM based compilers into native JS code

The complete Tex package has been re-compiled into Javascript from C++and is working much faster in compare to products live Overleaf.com

## Researches

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### **Automated Music Generation using LSTM**

2018 5th International Conference on Computing for Sustainable Global Development, IndiaCom-18

### **Using Neural Network to identify forgery in offline signatures**

2019 - International Conference on Innovative Computing and Communication

### **Indian EmoSpeech Command Dataset:**

A dataset for emotion based speech recognition in the wild.

arXiv: 1910.13801