

# Piyush Agrawal

## Software Developer

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## About me

A software engineer by the title and curious by nature. I like to know about anything around me. This is one of the reasons that I get to experience working in almost all projects in a company. I enjoy it when I can automate builds and infrastructure with code as a source of truth.

## Work experience

Backend Engineer 2019/07 - Present

Swapcard

- Maintaining the heart of the project, a typescript based GraphQL API.
- Writing IaC using Terraform for AWS EKS.
- Golang to make imports faster.

Software Developer 2017/11 - 2018/08

Indian Council of Medical Research

- Built India's first Medical Research Equipment repository.

Google Summer of Code Student May 2017 - Aug 2017

Decoupled the whole web server. Wrote the back-end with REST APIs from scratch with the team using Python and Flask.

## Bachelor of Technology

Bharti Vidyapeeth College of Engineering 2015 - 2019

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

## Projects

- **H2:** Supporting lightweight extensions for heavy task lifting  
It is built on an extensible architecture that can provide one with small digital luxuries. Inspired by Google Actions, one can easily write an "action" and plug it inside H2. Using typescript and electron.js.
- **LatexGo:** This project is motivated with the simple question that, if we can mine bitcoins on browsers then why not compile research papers there? A simple and elegant solution to compile Latex code in client browsers with the help of "emscripten"
- **Aerial Vision:** Tracking people on the aerial vision received from the drone  
A project which 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 a phone call to connect potential donors with blood requester.
- **Sketch2Code:** An A.I. converting sketches into UI. A computer vision model that takes a sketch of UI as an input and outputs a DOM-like object that can be used to render the UI in any platform.

## Skills

Javascript, Golang, Python, C++, C;  
Typescript, Electronjs, Django,  
Kubernetes, Terraform, Cloud Native,  
Helm, Jenkins, AWS, GCP;  
Computer Vision, Numpy, Panda;  
API Development, GraphQL, WebSockets,  
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

Mentor in Rails Girls Summer of Code 2020  
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.

## Researches

**Image Completion of Highly Noisy Images Using Deep Learning** *International Conference On Computational Vision and Bio Inspired Computing*. Springer, Cham, 2019.  
**Indian EmoSpeech Command Dataset:** A dataset for emotion based speech recognition in the wild. arXiv: 1910.13801