


# Aakash Mallik

Varanasi, Uttar Pradesh, India

 aakashs.mallik.cse15@itbhu.ac.in

 +91-7081311219

 [linkedin.com/in/aakash-mallik-5b8198132](https://www.linkedin.com/in/aakash-mallik-5b8198132)

## Summary

A software engineer with a passion for art. I have experience in working with a diverse range of technology stacks ranging from front-end frameworks to deep neural networks. My area of interest is Visual Computing & I believe in impactful simplicity.

## Experience

### Software Engineer

Postman

Jan 2021 - Present (7 months +)

- Lead the Documenter-UI migration from Handlebars to ReactJS. During the migration, we made use of our in-house techniques to keep the product live while we swapped out different parts of the legacy code with React Components.

### Software Engineer

Samsung Electronics

Jul 2019 - Nov 2020 (1 year 5 months)

- Worked on the Swarm Anomaly Detection; a patented concept of self-healing devices. I have been involved in the ideation and implementation of the prototype. A few of our earlier tests involved the use of LOF and similar clustering algorithms.
- Worked on Samsung's Kiosk proof of concept prototype implementation team. The product has been designed for the reduction of contact-based interaction with B2B products at different deployments.

### Software Development Consultant

Lutra Labs Inc.

Mar 2020 - Oct 2020 (8 months)

- Worked on architecture development of the Lutra Trade Engine application.
- Modified Hummingbot to make it work with Kafka and on-demand deployment via low-level docker APIs.

### Student Developer at FOSSASIA

Google Summer of Code

May 2019 - Aug 2019 (4 months)

- Worked as the lead engineer in the PSLab Desktop application which involved a complete redesign of the architecture and stack shift from PyQt to ElectronJS.
- Due to the requirement of reuse of the python library of PSLab, I had to come up with a creative way of developing a python and ElectronJS bridge for which I wrote my own task management library which is currently open-sourced.
- My research and work has been documented in a crisp set of articles I wrote on Medium.com

- <https://medium.com/heuristics/electron-react-python-part-1-introduction-b228ccf8e889>
- <https://medium.com/heuristics/electron-react-python-part-2-architecture-d49634521efd>
- <https://medium.com/heuristics/electron-react-python-part-3-boilerplate-1-3-45bbfa80fbe1>
- <https://medium.com/heuristics/electron-react-python-part-3-boilerplate-2-3-a6da0244768f>
- <https://medium.com/heuristics/electron-react-python-part-3-boilerplate-3-3-1a9cdd0a6b9d>

## **Software Engineer**

### FOSSASIA

Oct 2018 - Jan 2019 (4 months)

- Contributed extensively on the SUSI.ai application
- <https://github.com/fossasia/susi.ai/commits?author=AakashMallik>
- Contributed extensively on the SUSI skill CMS project
- [https://github.com/fossasia/susi\\_skill\\_cms/commits?author=AakashMallik](https://github.com/fossasia/susi_skill_cms/commits?author=AakashMallik)

## **Summer Intern**

### Samsung Electronics

May 2018 - Jul 2018 (3 months)

- Worked on implementation of the prototype of the multi-history TV remote concept; that got patented soon after.
- Cleared the Samsung Advanced S/W test and was offered a Pre-Placement Offer.
- Worked with Tizen Framework and its C++ libraries and React Native for the phone application.

## **Software Engineer**

### Doorpix

Dec 2017 - Dec 2017 (1 month)

- Worked as a software developer to create a fully fledged web-based image editor using the Angular4 framework and CanvasJS.
- The image editor has now been open-sourced and has been integrated with the Doorpix platform.
- <https://github.com/AakashMallik/photo-chrome>

## **Frontend Developer**

### Codios.io

May 2017 - Jul 2017 (3 months)

- Worked on a SPA using React, Styled Components, Redux and Draft.js to create a feature rich platform for authors.
- Got first hand experience of working in a fast paced environment with bleeding edge technologies.

## **Fullstack Web Developer**

### Infistart

Jan 2017 - Mar 2017 (3 months)

- Worked extensively with the core team at Infistart as a frontend developer and contributed to the making of their product Edusmart.
- Gained hands on experience in the use of AngularJS and NodeJS.

## Education



### **Indian Institute of Technology (Banaras Hindu University), Varanasi**

Bachelor of Technology, Computer Science

2015 - 2019

My B.Tech project involved the amalgamation of the concept of Bonsai model (A random forest like model that can fit in 2KB of RAM) developed by Microsoft Research and Genetic Algorithm to improve the memory optimization while keeping the accuracy as close to the original as possible.



### **Delhi Public School - India**

Higher Secondary, PCM

2013 - 2015

## Licenses & Certifications



### **Neural Networks and Deep Learning - Coursera**

ZEX93GGTUTG4



### **Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization - Coursera**

SAZMJFHP9EW8



### **Structuring Machine Learning Projects - Coursera**

NZ55XLL3DVRU



### **Convolutional Neural Networks - Coursera**

97HRQNXDJPW5



### **Sequence Models - Coursera**

7NAYSN8FVHTB



### **Intro to Game AI and Reinforcement Learning - Kaggle**

## Skills

React.js • Java • Node.js • MongoDB • Python • Bash • MySQL • Linux • Angular4 • Raspberry Pi

## Honors & Awards



### **Code Heat Grand Prize winner - FOSSASIA**

Jan 2019

I was selected as one of the grand prize winners for the code heat competition for the year 2018-2019.

<https://codeheat.org/>



### **FOSSASIA Hackathon with UNESCO - FOSSASIA**

Mar 2019

Our team won the AI Dev prize and the Audience Prize for the hackathon conducted by UNESCO and FOSSASIA

<https://devpost.com/software/crowd-sourced-corpus-generation>



### **Samsung Bangalore Hackathon Runner-up - Samsung Bangalore, India**

Jan 2018

<https://github.com/AakashMallik/hackathon-technex>



### **Samsung Young Achiever Award - Samsung R&D, Delhi**

Nov 2019