

# ARCHIT MATHUR

architmathur2011@gmail.com

linkedin.com/in/archit-mathur

github.com/achie27

medium.com/@achie27

## EDUCATION

### SKIT, Jaipur

- B.Tech., Aug '15 - May '19  
Computer Science

### MPS, Ajmer

- AISCE 2015 - 93.6%  
Science, Mathematics, IP
- AISSE 2013 - 9.6 CGPA

## SKILLS

JavaScript • Go • C++  
Python • HTML/CSS

PostgreSQL • MongoDB  
Elasticsearch • Redis

Kafka • RabbitMQ

Git • AWS • Postman  
Prometheus • ELK • EFK  
Locust • Patroni

React.js • TypeScript  
PyTorch • OpenCV  
PyQt5 • Scikit-learn

## ACHIEVEMENTS

- Reported CWE-200 and CWE-522 based P0/P1 vulnerabilities to a leading edtech startup in India along with possible steps to triage; got swag as a token of appreciation
- Completed the Computer Vision nanodegree by Udacity - built projects on facial keypoint detection, image captioning, and landmark detection and tracking

## EXPERIENCE

### Software Engineer, smallcase

June '19 - Present

- Responsible for maintaining the communications & tracking infrastructure
- Built a custom, Kafka and Redis based, distributed bucketing-cum-throttling pipeline which reduced internal systems' metrics by as much as 98% and SLA-based errors from external entities by 70%
- Integrated WhatsApp messaging in the ecosystem. 26% of the nudges sent to users in the last year have led to a transactional action
- Integrated webhooks from vendors for tracking status of sent comms. This has enabled the Product and Content teams to do data-driven content optimisation

### Google Summer of Code, Intel

May '19 - Aug '19

- Modelled multiple CNN and GAN based deep neural networks for doing single image super resolution (SISR) using PyTorch
- Integrated these DNNs in libXCam - Intel's open-source camera library used by multiple device manufactures, software vendors etc
- Ensured compatibility across platforms by converting these DNNs into ONNX representations that libXCam's inference engine could use

### Software Development Intern, Innoraft

Feb '19 - June '19

- Trained on Drupal, PHP7, and maintainable CSS
- Developed and extended internal web apps

### Google Summer of Code, CCExtractor

April '18 - Aug '18

- Developed an open-source and cross-platform software, FabBits, that can catalogue interesting bits from sports and entertainment videos
- Achieved cataloguing of goals in soccer matches, actor-specific scenes in movies, jokes in sitcoms, three-pointers in basketball etc
- Read, understood, and implemented 11 research papers and referred to more than 25 over the course of summer

### Software Development Intern, IIT Bombay

May '17 - July '17

- Worked in a team of two and created a web platform for teachers to gamify school-level curriculum for children aged 5 - 12
- Teachers could use pre-built game scenarios and fit quizzes or concepts to maximize students' learning in a fun way
- Used Alchemy.js for visualizing game stats to find students' performance in different areas for teacher evaluation
- Stood 3rd all over India in the selection competition by making eight high-quality animations using Three.js