

# Avinash Vishwakarma

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## EDUCATION

Government engineering College Raipur

BTech in Computer Science

August 2018 - July 2022

Result - 80%

AVM HS school Chirimiri

12th Science

June 2016 - April 2017

Result- 89.5%

## Technical Skills

- |                         |  |
|-------------------------|--|
| • Programming Languages | <i>Python, C/C++</i>   |
| • Framework & Library   | <i>Django, Django - rest framework, Tensorflow, Keras, Pandas, Numpy</i> |
| • Tools & Technology    | <i>Data Structures and Algorithm, Git, Vs-Code, Spyder, Heroku</i>       |
| • Database              | <i>PostgreSQL, SQL</i>   |

## Work Experience

Software Developer Intern at 3 Comma Capitals

April 2021 - June 2021

- Developing **multiprogramming** and **multithreading** tools in python For reducing access time up to **50%**
- Strengthened data handling with **pandas** and **Numpy** for stock market data to reduce code complexity by **20%**
- Implemented **object-oriented concepts** for storing and manipulating stock market data that improved the storage capacity by **30%**

Software Developer Intern at Zing Circles

September 2021 - Present

- Worked for backend development with **Django** and **Django Rest Framework**, for blogs and post-submission
- Building **APIs, Filters** and managing the database with **MVT** and applying for Mixins and custom permissions
- Developing documentation tools such as **Swagger**

## Achievements

- |   |                    |
|---|--------------------|
| • <b>Rated 2000+ on CodeChef</b>          |                    |
| • <b>Smart India Hackathon Runners up</b> | <b>August 2020</b> |
| • <b>ICPC'20 Amritapuri Regionalist</b>   | <b>August 2021</b> |

## Projects

EZComm( institute management system)

<https://github.com/vtf05/ezcomm-backend>

- The backend of the software is built on **DRF**
  - **Python Docx** is used to create documents/templates for Notices
  - **Abstract Base User** build to replace the default user base in PostgreSQL
  - Authentication is done by **Django all-auth** and **rest-auth**
- ( *Django-rest framework, Python, PYPDF, PostgreSQL, Heroku, OpenCv* )

SMART VEHICLE ACCIDENT ALERT SYSTEM

<https://github.com/vtf05?tab=repositories>

- Collaborated with **Python** and **Django-rest Framework** for building API for the app, website and device
  - Integrated **Twilio** a calling API for call rendering system and **Geolocation** API for accessing the live location
  - Trained Machine learning algorithm **SVM** for calculating the severity of the accident with **95%** accuracy
  - Worked with **PostgreSQL** for storing user and vehicle data in real-time
  - Hosted the backend using **Gunicorn** on Heroku
- ( *Python, Django-rest framework, Twilio, Google geolocation API, SVM algorithm, PostgreSQL, Heroku* )

LOAN.ly

<https://github.com/vtf05/loan>

- This one is a backend development project for mobile apps using **Django-rest framework** and **Python**
  - Upgraded **custom user** and **user authentication** tools
  - Converted coordinate into relevant locations using open source services and deliver them in using **APIs**
  - Applied image **Geotagging** tools using python and 3 party libraries
  - Deployed project with **PostgreSQL** and Heroku
- ( *Python, Django-rest framework, Geotagging, PostgreSQL, Heroku* )

Currently working with these projects

[Ecom. Website using DRF](#)

[Image colourization using GAN](#)

## Articles

- custom user models .in Django rest framework
- select-related and prefetch-related queries in DRF

[LINK](#)  
[LINK](#)