

# Avinash Reddy Arutla

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in /avinasharutla

## EDUCATION

### B. V. Raju Institute of Technology

*B.Tech in Electronics & Communication Engineering*

CGPA (Until 3-2) : 8.66

Narsapur, TS

*Expected Graduation: June 2023*

### Sri Chaitanya Junior Kalasala

*Intermediate - TSBIE - PCM*

Marks : 875/1000

Hyderabad, TS

*Graduation: May 2019*

## INTERNSHIPS

### Backend Developer Intern

*Shiriyam Technolgoies*

Remote

*Sep 2022 - Ongoing*

- Refactored existing authentication code on the service layer which reduced upgrade time by over 50
- Created a AWS lambda function which runs the tests on all company projects and emails the results to the product managers.

### Data Scientist Industrial Training Program

*DevTown*

Remote

*Jan 2022 - June 2022*

- Wrote code to process, clean and analyze data from various sources such as MySQL, Excel, and JSON files.
- Used statistical methods and techniques to identify trends, correlations and patterns in data sets.
- Developed an understanding of various data science concepts such as artificial neural networks and convolutional neural networks

### Python Developer Intern

*Aapoon Inc*

Hyderabad, TS

*Feb 2021 - Apr 2021*

- Worked with a team of 2 to implement bug free beta application and wrote test cases which improved overall app health by 20%.
- Understood concepts such as Test Driven Development and learnt how Django can be implemented at scale.
- Helped in improving the internal documentation of the proprietary android app and designed wireframes for UX development.

## PROJECTS

### Automatic water level monitoring in paddy fields

*July 2021*

- **Project Link ; Tech Stack:** Arduino, C
- Using Arduino UNO R3, made a automatic water level monitoring system which used components liked Ultrasonic sensors, Rain sensors and servo motors.
- Using various entry controlled loops and decision iterators for programming the microcontroller board, the sensors were made to work in perfect harmony for implementation in a field.
- In the beta phase, the project was implemented in a contained paddy field, where conditions for rain, and excess/under water levels were emulated, and results were observed with over 95% accuracy.

### Peer to Peer Web Chat Application

*June 2022*

- **Project Link ; Tech Stack:**Python, Flask, MongoDB, SocketIO, Javascript, Bootstrap
- Used Flask as the backend for the web based application.
- Used SocketIO to facilitate bidirectional, low latency data transfer between two nodes.
- Implemented features such as Login and SignUp using MongoDB, and validated inputs using flask validators.
- Designed the frontend using HTML,Bootstrap

### Vishnu Bot

*Sept 2020*

- **Project Link ; Tech Stack:** Javascript, nightmare, MongoDB, NodeJS
- Using Javascript as the backend, made a project which used Nightmare NPM library for fetching the attendance from BVRIT's E-Cap.
- Ran the test server on a local machine and emulated the telegram bot to which the backend was connected.
- Used MongoDB Atlas to retrieve student data stored there.
- Used APIs which returned JSON data for certain elements of the chatbot.

### Smart Vehicle Surveillance System

*Oct 2022*

- **Project Link ; Tech Stack:** Python, Flask, OpenCV
- Implemented a suspicious activity detection system on Raspberry Pi using Python built on Flask monolithically.
- Surveillance feed is analysed and unknown faces are analysed for a sampled time. If found lingering around the vehicle for more than mentioned time, alert is sent to the owner.

### Chieftain

*Nov 2022*

- **Project Link ; Tech Stack:** Python, FastAPI, PostgreSQL, Streamlit
- Chieftain is an authorisation and authentication server.
- FastAPI manages the microservices and OTP storage and permissions are stored in PostgreSQL
- The sample frontend of the application is implemented through Streamlit.

## TECHNOLOGIES

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- Languages (Proficient) - Python, C, HTML, CSS
- Languages (Familiar) - Java, Javascript
- Lib/Frameworks - Bootstrap, Flask, Streamlit
- Tools - Postman API
- VCS - GIT
- Databases - MongoDB, MySQL, PostgreSQL
- Cloud - AWS

## CERTIFICATIONS

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- Blockchain Basics - University at Buffalo
- Getting Started with Python - University of Michigan
- Python Data Structures - University of Michigan
- Using Python To Access Web Data - University of Michigan
- Android Basics in Kotlin - GDSC GITAM Hyderabad
- Introduction to HTML
- AI for Everyone - DeepLearning.AI
- PCB Design Workshop - VEDIC.dev
- Full Stack Web Development with NodeJS - VEDIC.dev
- Introduction to IoT - Cisco Networking Academy
- Introduction to Packet Tracer - Cisco Networking Academy
- AWS Cloud Foundations - AWS Academy
- AWS Solutions Architect - AWS Academy
- British English Certificate Preliminary - Cambridge Assessment
- Red Hat System Administration I - Red Hat Academy
- Red Hat System Administration II - Red Hat Academy
- Programming in Java - NPTEL (IIT Kharagpur)
- REST API (Intermediate) - Hackerrank

## EXTRA CURRICULARS

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- Core Team Member at Enlightening Lives, BVRIT
- Member of GITAM Google DSC Hyderabad
- participated in Girlsript Winter of Code
- Participated in BVRIT MUN 2022 as Delegate of Belarus in UNSC
- Volunteer at Women Who Code Hyderabad
- Community Member of Google Developer Group Hyderabad
- Community Member at Facebook Developer Circles

## DECLARATION

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- All the information mentioned above in the resume is correct to the best of my knowledge and belief.