Rahul Sunil

COMPUTER SCIENCE AND ENGINEERING GRADUATE | PRODUCT ENGINEER

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I have a very strong base in technology with over 2 years of professional experience working on software projects and currently looking to secure a job in a reputable organization to expand my knowledge, skills and experience.

Experience

Accubits Technologies Inc │ PRODUCT ENGINEER   **April 2022 - Present**

- Worked on CodeEgo - A **Python Multi-tenant** Software for performing SAST Code Analysis.
- Engineered the **ChatGPT Chrome Extension** module for Bud Project - A project which creates skills from prompts.
- Conceptualised **OpenMind** - A project which deals with **Organisational Network Analysis** and Employee Behaviour Analysis.
- Strategised the planning and development of 10+ Projects including **Employee Skill Inventory using ELK Stack**.
- Joined as an Intern in April which got converted to Full Time in August due to my exemplary work performance.

Microsoft | Field Data Technologies │ RESEARCH INTERN   **October 2021 - June 2022**

- Engineered an Unmanned Ground Vehicle(UGV) for **the detection and surveying of endangered species**.
- **Implemented Python Libraries** for interfacing and communicating with the UGV from the server using XBee Modules.
- Pioneered a method for sending **images and other data between XBee Modules** using ZigBee Communication without the internet.
- Partnered with Microsoft Engineers and Field Data Technologies for technical support and hardware needed for the prototype.

Kerala Police Cyberdome │ FRONT-END TEAM LEAD   **February 2021 - September 2021**

- Spearheaded a 3-Member Front-end team for Grapnel, a Web App that helps in **Crawling, Searching and Analysing the Dark Web**.
- Developed various major Components of an **Angular App** and Coordinated with various other teams for **integrating GraphQL APIs**.
- Received a prize of 10 Lakhs for developing the Product which became one of the **highly praised Cyber-Software in the country**.

Tata Consultancy Services │ RESEARCH INTERN   **June 2021 - September 2021**

- Developed **Deep Learning models APIs** for Low Code Applications using Flask and Tensorflow.
- Worked on Image-based virtual try-on using GAN and OpenCV.

Cisco ThingQbator │ PROJECT TEAM LEAD   **June 2020 – September 2020**

- Guided a team of 5 members to develop a user-friendly system, for storing the medical history of patients - **BitMedi**.
- Developed a Django server for processing and storing medical records in our database.
- Our project got selected as one of the Best Project and received seed fund from CISCO ThingQbator.

AgriVision │ CO-FOUNDER   **April 2019 - March 2020**

- Responsible for developing a crop disease detection model using **Tensorflow** and coordinating the working of the team.
- **Incubated** our Company in Catalyst-Innovation and Entrepreneurship Development Centre in our college.
- Pitched our solution in various stages and have won recognitions like YIP State Level, IBeTo Finalists and Hash Hackathon Third.

Education

2022	**APJ Abdul Kalam Technological University	Trivandrum**	B.Tech in Computer Science **(8.37/10)**
2018	**Kendriya Vidyalaya, Pattom (2nd Shift)	Trivandrum**	CBSE Computer Science - 12th Grade **(87%)**
2016	**Our Own English High School (Boys Branch)	Sharjah**	CBSE - 10th Grade **(9.6/10)**

Skills

Frameworks and Languages	Python, Django, TypeScript, React, Angular, Flask, Express, Flutter, GraphQL, TensorFlow, Keras
Database	PostgreSQL, MongoDB, ElasticDB, FireStore, Apache Cassandra, Oracle SQL, Redis, SQLite
Tools and Hardware	Git, Linux, AWS, GCP, Azure, Netlify, Vercel, Docker, RabbitMQ, Photoshop, Figma, Arduino

Projects

smarTangle
<div align="center">June 2020 – July 2020</div>

- Developed a **Django** Web App with **PostGreSQL** as primary DB and **InfluxDB** for Time Series Data.
- Developed APIs using **Django Rest Framework** for the Web Server to communicate with the Flutter Mobile Client.
- Integrated **IOTA Tangle** Network for storing data in a secure way and hosted the entire project in **AWS** and then **GCP**.

Publications

DJMol: An open-source modeling platform for computational chemistry and materials science with a Python interpreter

JOURNAL OF COMPUTATIONAL CHEMISTRY | IMPACT FACTOR: 3.376   **August, 2021**

- Assisted in integrating Python interpreter and Version Control System using Windows Subsystem for Linux.
- Developed a site for the forum and documentation of the software.

BitMedi: An application to store medical records efficiently and securely | INTERNATIONAL CONFERENCE ON EVOLUTIONARY COMPUTING AND MOBILE   **September, 2021**
SUSTAINABLE NETWORKS

Accident Alert System with False Alarm Switch | SPRINGER SINGAPORE   **December, 2020**

- Received Funding from the Kerala Government for developing an IoT System for Accident Alerting using Arduino.
- Presented the paper at the Springer International Conference on Computer Networks, Big Data and IoT (ICCBI 2020)

Achievements

Sep 2021	**Hackathon Winner**, Hac'KP International Hackathon - 5th Edition		*International Level Hackathon*
Jun 2021	**Best Engineer '21**, Indian Society for Technical Education, MBCET		*College Level from All Semesters*
Mar 2021	**Gate 2021 Qualifier**, Graduate Aptitude Test in Engineering		*National Level Exam*
Jan 2021	**Hackathon Winner**, 'HackX' - National Institute of Technology, Calicut Hackathon		*National Level Hackathon*
Sep 2020	**Top 12 Projects and Received Seed Fund - BitMedi**, Cisco ThingQbator		*National Event*
Sep 2020	**Top 15 Projects**, YouthTech Competition by startAD and Abu Dhabi Goverment		*International Event*
Dec 2019	**D3Code Hackathon Finalist and Got Placed in UST**, UST Global		*National Level Hackathon*