


SATWIK VATS

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Education

Birla Institute of Technology and Science, Pilani

B.E. (Hons.) Electronics and Instrumentation (CGPA: 7.15)

Aug 2019 – May 2023

Pilani, Rajasthan, India

Kendriya Vidyalaya O.F Chanda

All India Senior School Certificate Examination; CBSE (Percentage: 90.6)

Jul 2016 – Jul 2018

Chandrapur, Maharashtra

D.A.V Public School, Aundh, Pune

All India Secondary School Examination; CBSE (CGPA: 10.0)

Jul 2014 – Jul 2016

Pune, Maharashtra

Work Experience

Samsung R&D Institute India

Software Development Intern, Network Call & OAM Team

July 2022 – Dec 2022

Full-Time | Bangalore

- Enhanced **Software Architecture Maturity Score** of a code module by **24%**, via changes in Preprocessor Flags.
- Wrote and compiled Unit Test Cases for **80 Functions** with **API Calls**, using **Pytest** and **Mock Object** libraries.
- Fixed Bugs in a Machine Learning Framework, improving code Maintainability and Reliability by **14%** and **8%**.
- One of the **26/61** interns to clear the monthly **Software Competency (Advanced)** Test in DSA, on **first attempt**.

CloudQA, Hyderabad

Software Engineer Intern, CloudQA (Product of Statnetics LLC)

Mar 2023 – June 2023

Part-Time | Remote

- Developed **API authentication mechanism** using **.NET** and **C#** for Alpha version of a Test Automation Tool.
- Created visual tester using **Puppeteer** and **Resemble.js** for detecting element changes on dynamic webpages.

Projects

Personal Portfolio Website | Personal |  [Github](#) |  [Website](#)

Jun 2021 – Aug 2021

- Built **Personal Blog-cum-Portfolio** using Hugo, deployed using Netlify, and **automated** using **Github Actions**.
- Gave a comprehensive walkthrough of **AWS**, **Docker**, **Ansible**, **Kubernetes** through **Asciinema** terminal recordings.

Mindblooming | Android Fitness App | Personal |  [Github](#)

Dec 2021 – Jan 2022

- Tech Stack: **Kotlin**, **XML**, **Firestore** Authentication & Storage, Youtube Android Player **API**, Google Analytics.
- Functionalities: Login/Signup; Change/Forgot Password; Navigation Sidebar; To-Do Workout List; BMI Calculation.

Research Internship | CSIR-CEERI, Pilani | Academic | *Mentor: Dr. Anil Saini*

Jan 2022 – Apr 2022

- Trained a **Resnet-18** model on a Kaggle sample dataset of 400 for Covid-19 prediction using chest X-Ray images.
- Applied **FedProx Optimization** on the **Federated Learning** framework addressing the client's data privacy.

CheckInn | FullStack Airbnb Clone | Personal |  [Github](#) |  [Website](#)

Jun 2023

- Back Stack: **Node.js**, **Express.js**, **MongoDB**, Json-Webtoken, Middlewares, CryptoJS Pwd-Encryption, **Postman**.
- Front Stack: **React.js**, Styling, **Hooks** (useState, useEffect, useReducer), Context, Route, **Axios**, DatePicker, Regex.
- Functionalities: Login/Signup; Filter by price, ratings, category; Search by location; Wishlist; Billing; Payment Gateway.

Relevant Coursework

- Computer Programming
- Object Oriented Programming
- Operating System
- Discrete Mathematics
- Data Structures and Algorithms
- Digital Design

Technical Skills

Languages/Libraries: C/C++, Python, Java, Javascript, HTML5, CSS3, Kotlin, SQL, React.js, Node.js, Pytest, C#
Developer/Collaboration Tools: VS Code, Visual Studio, MobaXterm, Android Studio, Git, Github, Docker

Certifications / Achievements

ProduceScope; Pitch Deck secured a place in the **top 10%ile** with 400+ registrations. | *E-Cell, IIT Guwahati*
Secured an **All India Rank 9945** in JEE Advanced 2019; **Percentile Score of 98.13%ile** in JEE Mains 2019.

Leadership / Extracurricular

Coordinator, Computer Literacy Programme | *National Service Scheme, BITS Pilani*

July 2021 – May 2022

- Trained **60+** **beneficiaries** including adults and school students for Govt certification exams like **CCC** and **BCC**.
- Launched a **women-centric technology training** initiative called Naari Computer Shiksha at a local stitching centre.

Joint Coordinator, Events | *Department of Sports Publicity and Design, BITS Pilani*

May 2021 – Apr 2022

- Managed the BOSM Facebook and Instagram handles with **4000+** **follower count** and **2000+** **footfall** per post.
- Curated** hoarding banners, standees and **digital content** across all the sporting events conducted in BITS Pilani.