

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

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

Jul 2014 – Jul 2016

Pune, Maharashtra

Relevant Coursework

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

Experience

Samsung R&D Institute India

Software Development Intern, Network Call & OAM Team

July 2022 – Dec 2022

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%**.

CloudQA, Hyderabad

Software Engineer Intern

Mar 2023 – Present

Remote


- Developed **API authentication mechanism** using **.NET** and **C#** for Alpha version of Test Automation Software.
- Implemented Python script with **BeautifulSoup** for **webcrawling** resume details like Name, YOE, and location.
- Created visual tester using **Puppeteer** and **Resemble.js** for detecting element changes on dynamic webpages.

Projects

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

Jun 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.

Mindbloomng App |  [Github](#)

Jan 2022

- Developed a Fitness App (Tech Stack: **Kotlin**, **XML**, **Firebase**) and tested for different resolutions using an emulator.
- Enabled authentication using **Firebase**, with **Google Analytics** for performance monitoring and crash analytics.

Bitcoin Wallet Application |  [Github](#)

Feb 2023

- Developed a command-line application using **Node.js**, allowing users to create and manage their Bitcoin wallets.
- Functionalities: Wallet creation; Viewing wallet balance, transaction history; Unused Bitcoin address generation.

Certifications/Achievements

Software Competency in Data Structures & Algorithms - (SWC) Advanced | *Samsung R&D, Bangalore*

Produscope; Pitch Deck secured a place in the top 10 %ile with 390+ registrations. | *E-Cell, IIT Guwahati*

All India Rank (JEE Advanced 2019): 9945; Percentile Score (JEE Mains 2019): 98.13%ile

Technical Skills

Languages/Libraries: C/C++, Python, Java, Javascript, Kotlin, SQL, React.js, Node.js, Pytest, C#

Developer/Collaboration Tools: VS Code, MobaXterm, Android Studio, Git, Docker, Github

Leadership / Extracurricular

National Service Scheme

Coordinator, Computer Literacy Programme

July 2021 – May 2022

BITS Pilani

- 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.
- Conducted cybersecurity awareness lecture series for **500+ viewers** by esteemed researchers from **Cisco** and **McAfee**.

Sports Publicity and Design Team

Joint Coordinator (Events)

May 2021 – April 2022

BITS Pilani

- 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.
- Involved in Facebook streaming of BOSM Blitz, an **E-Sports Tournament** which saw a participation of **150+ teams**.