

APRATIM SHUKLA

B-96, Sector-18, Rourkela, Odisha – 769003, India

Email: apratimshukla6@gmail.com

[LinkedIn](#) | [GitHub](#) | [Website](#)

Phone: +91-9006653624

OBJECTIVE

A Master's in Computer Science aspirant aiming at enhancing subject knowledge by researching cutting-edge methodologies and developing scalable applications to solve real-world problems. Post-Master's, I want to work in the tech industry as a Research Engineer and eventually lead research teams in the domain.

EDUCATION

B.Tech in Electronics and Computer Engineering, Vellore Institute of Technology, Chennai CGPA:9.15/10 2018-2022

Relevant Courses: Algorithms, Databases, Networks, Software Engineering, Cloud and Distributed Computing

PROFESSIONAL EXPERIENCE

Metal Junction Services Limited, Kolkata Data Analytics Intern (ELK Stack, Grafana) Aug 2021 - Present

- Utilized Logstash for server events, logging data extraction, and storing them in Elasticsearch.
- Visualized server CPU, memory, and I/O utilization using Grafana.
- Developed visualizations for logs analysis using Kibana and made predictions to improvise system performance by 15%.

Center for Advanced Data Science, VIT Chennai Research Intern (Python, Electron, Docker) Jun 2021 - Jul 2021

- Configured Docker on an EC2 instance and deployed the required MySQL database.
- Upgraded the DSS for analyzing soil chromatography samples by incorporating new features like JSON-based interactive visualization in the electron app.
- Implemented Python Scripting for automated extraction, manipulation, and uploading of data regarding soil chromatography and speeded up the process by 20%.

Poompuhar Shipping Corporation, Chennai Full-stack Intern (MERN stack, GraphQL) Feb 2021 - May 2021

- Built a ferry booking web application for searching ferries, booking rides, payment, and ticket generation.
- Collaborated with an intern to develop the admin dashboard and set up an API server with JWT-based authentication for mobile app development.
- Deployed the web application, admin dashboard, and API server on a Digital Ocean VPS and configured Cloudflare for DNS, SSL, caching, and protection.

Fundboon Consulting Solutions Pvt. Ltd., Chennai Full-stack Intern (MERN stack, GraphQL) May 2020 – Jan 2021

- Developed an admin dashboard with functionalities for Loan Applications, Bank Management, Lead Management, Profile Management, and User Management.
- Upgraded the user web application according to the specifications, implemented new features like OTP authentication, loan application tracking, and optimized the request-response times by 50%.
- Configured CI/CD for the application using GitHub Actions and deployed the web app on Heroku.

PROJECTS

VITask, VIT Chennai Jun 2019 - Present

- Founded VITask, a service that handles 400+ users and 100,000+ monthly requests. The project utilizes python libraries such as BeautifulSoup and Requests to fetch and parse the VIT Chennai VTOP website.
- The server acts as a custom-built API for our client applications on Android, Windows, and the Web.
- Managed a team of ten developers to develop functionalities such as automated captcha solving, attendance calculator, and Moodle Integration.
- Deployed on Digital Ocean VPS with load balancers.
- Tech stack: Flask, Firebase, Electron, React Native, Flutter

PharmaCat, VIT Chennai Oct 2019 – Jun 2021

- Developed a system to reduce the burden on hospitals by providing virtual treatment and prognosis to patients based on symptoms entered through text or a dropdown list on the application.
- Incorporated ML and NLP-based prognosis, BMI calculator, and a feature to virtually book appointments in hospitals near the patient through the web and mobile interface.
- Implemented a live chat feature for patients to ask doctors for a second opinion after the prognosis results to encourage users to trust the service.
- Offered API service for developers to use the product and build cross-platform applications.
- Tech stack: Flask, MySQL, Sklearn, Socket.io, Java

owaspvit.org, VIT Chennai Apr 2021 - Present

- Founded owaspvit.org, the official open-source initiative of VIT Chennai's OWASP Student Chapter.
- Developed modules for management such as a leaderboard for contribution tracking, digital certificate locker, projects showcase, and event management integrated with a discord bot.

- Dockerized the web application and bot and configured easy setup through docker-compose.
- Deployed on Digital Ocean PaaS and handled 200,000+ requests monthly.
- Tech stack: Flask, Firebase, Discord.py, Docker

PUBLICATIONS

Enyo: A Multistage Partition and Transposition Based Cipher

2021

- Presented at the 2nd International Conference on Communication and Intelligent Systems.
- Published in Communication and Intelligent Systems, 2021.
- Released Enyo PyPi module that has more than 12000 downloads.

Comparing Deep Sentiment Models Using Quantified Local Explanations

2021

- Presented at the 1st International Conference on Smart Technologies, Communication, and Robotics IEEE-STCR-2021
- Published in IEEE Xplore, 2021.

CluniacChain: Blockchain and ML-based Healthcare System

2021

- Accepted for publication in Real-Time Applications of Machine Learning in Cyber-Physical Systems, 2021.

ACTIVITIES AND AWARDS

- Undergraduate Teaching Assistant for Semiconductor Devices and Circuits, and Microcontroller and its Applications, Prepared and evaluated assignments and lab work; VIT 2019-20, 2020-21
- Selected for the Mitacs Globalink Internship for project 'WellWiki.org- Oil and Gas Well Database', University of Alberta, Canada Dec 2020
- Stood 4th in Electronics and Computer Engineering and received the Academic Excellence Award VIT 2018-19
- Winner, 24 hour Hackathon, Microsoft Innovations Club, VIT Oct 2019
- Chapter Leader, conducted international conferences, webinars, and hackathons with the sponsorship of more than USD 2000, OWASP Student Chapter; VIT
- Website Coordinator, team leader; TechnoVIT and Vibrance 2019, 2020
- Conducted weekly web app development workshops and mentored 200+ students, Open-Source Club, VIT Jan 2020
- Volunteered to teach middle school English, U&I Maze Maher orphanage Feb - Jun 2021
- Volunteered to teach English at a public school in Chennai, VITeach 2019-20