

VARUN KUMAR TIWARI

Atal Bihari Vajpayee Indian Institute of Information Technology and Management, Gwalior

@ hello@varuntiwari.com

+91-8319926977

varuntiwari.com

in varunkt001

varunkt001

EXPERIENCE

System Engineering Intern

D.E. Shaw India Private Limited

May 2024 - June 2024

Hyderabad

- Developed a custom **network infrastructure visualization tool** with **real-time monitoring** and **troubleshooting** capabilities.
- Implemented **network state logging** capabilities to aggregate and securely store data on **ElasticSearch**.
- Performed **load testing** on the server and optimizations on the front-end, resulting in a **30% reduction** in page load times.

Full Stack Developer Intern

whatthebeat.com

May 2023 - April 2024

Remote

- Designed and developed the **WhatTheBeat platform** from scratch.
- Implemented **automated processes** for daily content updates to analyze and add the latest songs promptly.
- Designed **scheduled jobs** for automatic meaning generation and indexing of new songs, boosting content **freshness and discoverability**.
- Successfully scaled the application to support **over 300,000 monthly active users**, ensuring **high performance** with low infrastructural cost.

ACHIEVEMENTS

- The **Best Web App** category winner of the Code With Harnoor hackathon, organized by Singh In USA.
- The **Best Web App** category winner of the Winter Projects organized by GDSC and AASF, IIITM Gwalior.
- Secured **2nd position** in OpenCode'21, one of the biggest open-source events organized by GeekHaven, IIITA.
- Secured **4th place** out of 750+ teams in Hacksquad, an open-source event.
- Placed among **Top 10** teams in OutOfContext'21, 36 hours design hackathon organized by Effervescence, IIITA.

EVENTS CONDUCTED

- Conducted a comprehensive 5-day workshop for freshmen, focusing on the fundamentals of **Backend Development**.
- Ran a **Git/Github workshop** for my college freshmen to teach them how to utilize **version control systems** effectively.

SKILLS

- Languages:** Python, Javascript, Typescript
- Frameworks & Libraries:** ReactJS, Next.js, Redux, NodeJS, ExpressJS
- Database Systems:** MongoDB, PostgreSQL, MySQL
- Tools & Technologies:** Git, Docker, Figma

EDUCATION

Integrated B.Tech and M.Tech in Information Technology

ABV-IIITM, Gwalior

Expected 2025

8.09 CGPA

Senior Secondary (XII), Science

Little Kingdom School, Jabalpur

May 2019

91.6%

Secondary (X)

Little Kingdom School, Jabalpur

June 2017

9.6 CGPA

PROJECTS

TWS - Self-Hosted Home Server

- Built a **home-server** with locally sourced hardware (AMD Ryzen 3 3200g, 16GB RAM, NVME, and HDDs).
- Deployed various self-hosted services like **Nextcloud**, **Immich**, **backup/sync solutions**, **monitoring**, etc.
- Configured **VPN**, **Nginx reverse proxy**, **Cloudflare DNS**, and **Let's Encrypt**.
- Tech stack: **Ubuntu Server**, **Docker**.

TomperWear - eCommerce Web Application

- Developed an **eCommerce website** for clothing essentials.
- Used **Figma**, **React.js**, **Firebase**, **Axios** for frontend; **Node.js**, **Express.js**, **Cloudinary**, **Stripe**, and **MongoDB** for backend.
- Created an **admin dashboard** for managing products and tracking orders.

TomperChat - Chatting Application

- Built a **chat application** similar to **WhatsApp**.
- Used **React.js**, **Axios** for frontend; **Node.js**, **Express.js**, **Cloudinary**, **MongoDB**, and **Socket.io** for backend.

TomperJS - Web-Framework

- Developed a **web framework** based on **MVC architecture**.
- Created **reactive views** that respond to model changes.
- Supported **user and custom events** with an **Eventing module**.