

Harsh Tiwari

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EDUCATION

ASANSOL ENGINEERING COLLEGE

B.TECH. IN COMPUTER SCIENCE

Cum. GPA: 9.0 / 10.0

Expected: July 2023

Asansol, India

SKILLS

PROGRAMMING

Java • Javascript • Python • C++

Spring (MVC, Webflux) • MySQL
Servlets • JSP • NodeJS • Express

ReactJS • React Native • Bootstrap

Tools:

Git • Docker • Linux • RabbitMQ
AWS

Familiar:

Angular • TypeScript
MongoDB • Ant Design • material-UI

CONCEPTS

- Data Structures and Algorithms
- Microservices
- RDBMS
- Scalability
- Security
- OOPS
- Machine Learning

COURSEWORK

Programming in C

Python

Data Structures and Algorithms

ACHIEVEMENTS

Amongst Top Contenders in Project
Exhibition of CSI State Student
Convention, 2020, West Bengal

Rating of 1375 on Codeforces.

481 Rank: Hack The Interview V (Asia
Pacific). HackerRank.

HOBBIES

- Volleyball • Gardening

EXPERIENCE

ELEVA INFOTECH | BACKEND DEVELOPER INTERN

Aug 2021 – Present | Bangalore

- Worked on a POS software that manages day to day functionality of restaurants
- Developed **order management** APIs and UI using **Express, ReactJS, MongoDB**, facilitating execution of orders on various levels (waiter, chef, manager, etc)
- Built **authentication flow** using **firebase** for both Client and backend app
- Implemented custom Logging mechanism with size and time based backup

CHUHIYA SOFTWARE | SOFTWARE ENGINEER INTERN

Aug 2020 – Feb 2021 | Asansol, WB

- Developed backend for **ERP software** and **designed databases** for the projects.
- Implemented features like **role-based** and **OAuth Authentication and Authorization**, in-memory **Cache**, **payment gateway** integration (Razorpay)
- Integrated **Google Drive storage** to let users upload and download their data.
- Used **WebSocket** with **STOMP subprotocol** to build real-time status feed.
- Deployed projects on **AWS** using **Elastic beanstalk** and **RDS**
- Tech: **Java-Spring-boot/MVC/Security/JPA, MySQL, JS, Bootstrap, AWS**

PROJECTS

UNTANGLEDCHAT | FULL-STACK MOBILE | [LINK](#) | [DESIGN DOC](#)

- Developed a Messaging app with a focus on **scalability** and **privacy**
- Used **RabbitMQ** for routing messages to associated **WebSocket** to **decouple systems** and easily scale WebSockets horizontally
- Established **End-to-end encryption** using **RSA public-key** cryptosystem
- Integrated a ChatBot trained on 1.7 million comments using **BRNN**
- Tech: **Java11, Spring Webflux, React Native, MongoDB, RabbitMQ**

GEO-PARKING | MICROSERVICES, REACTJS | [LINK](#)

- Built a **full-stack distributed web app** to assist people to find nearby parking spots and rent their land as a parking spot.
- Integrated **map** and **geocoding search** to enhance interactivity
- Implemented 6 microservices including **API gateway** (with **token-based authorization**), service registry, config, and **authentication server**.
- Used **Redis as distributed cache**, decreasing the response time up to 5x.
- Tech: **Java11-Spring, ReactJS, PostgreSQL, MongoDB, Redis, Docker**

COVID-19 TRACKER | REACTJS | [LINK](#)

- Web app to view live Covid-19 updates with interactive graphs using **ChartJS** and **material-UI** using open-source **mathdroid** api.

MYCODEBUDDY | COMMAND-LINE UTILITY | [LINK](#)

- Built a CLI to automate tedious tasks like **reading PDF/Docx files**, **searching and reading Wikipedia** results in CLI, **Corona Updates**, **Converting images to PDF**, creating/deleting files, etc
- Used **Speech recognition** module and **google speech recognition** API to convert audio to text and Microsoft speech API (**SAPI5**) to speak out text
- Improved performance by 200% using **multi-threading** and **multiprocessing**.
- Tech: **Python**