KARTHIKEY SAXENA

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WORK EXPERIENCE

Application Engineer Intern
Oracle   *(May 2021 - July 2021)*

Exposure: Backend Development, Software Testing and, Deployment

- Migrated the **Solution Engineering as a service (SEaaS) API** to **Spring Boot** and **OCI containers** from the existing Java and WebLogic implementation.
- Refactored the database layer using **Eclipse Link JPA** and the rest API layer using the **Jersey Rest framework** along with adding **Basic** and **OAuth2** authentication to all the requests.
- Performed all the **unit** and **integration** tests using the **TestNG** framework.
- Containerized the application with **Docker** and deployed it to **OKE (Oracle Kubernetes Engine).**

Software Engineer Intern
Trilyo (Konverse AI)   *(Dec 2020 - Feb 2021)*

Exposure: ETL development, data pipeline and integration

- Built a dashboard in **Reactjs** for creating charts from **Cubejs** server by integrating it with **MySql** and **MongoDB** (MongoBi constructor) databases.
- Built APIs with **Expressjs** and **Nodejs** for managing data of the charts in MySql database using **Sequelize** ORM.
- Developed a **data pipeline** in Nodejs to integrate the above MySql database with MongoDB, which was then used with Cubejs for building charts.

EDUCATION

B. Tech.
Indian Institute of Technology (BHU), Varanasi
2018 - Present   **9.19/10.0**

Intermediate (CBSE)
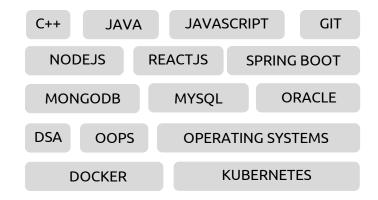St. Anthony's Sr. Sec. School, Udaipur
2018   **94.6%**

High School (CBSE)
St. Gregorios' Sr. Sec. School, Udaipur
2016   **10.0/10.0**

SKILLS

C++   JAVA   JAVASCRIPT   GIT
NODEJS   REACTJS   SPRING BOOT
MONGODB   MYSQL   ORACLE
DSA   OOPS   OPERATING SYSTEMS
DOCKER   KUBERNETES

PROJECTS

Socialites - A social media web application [LIVE]
- Built a web app where users can create, edit, view, delete a post, comment, add a reaction, or chat.
- Frontend is built using **Reactjs** and **Hooks API** while backend with **Nodejs** and **Expressjs**.
- Added **Session-based** user authentication using **bcryptjs**, **cookies**, and **Redis** for mapping user data.
- Used **Socket.io** for real-time chat and, **Google Oauth2** for authentication with google.
- For database, **MongoDB** atlas was used with **mongoose** ORM. The app is deployed on **Heroku**.

Game Development with C++ and SFML [DEMO]
- Created an application on **Visual Studio** comprising of single and multiplayer games like *Snake Game*, *Ball-Brick*, *Connect4*, and *Tic-Tac-Toe* using **C++** and **SFML** (Simple Fast Multimedia Library).

Survey It Web application [LIVE]
- Built a web app where users can create, and vote on different surveys and polls.
- Frontend is built using **Reactjs** and **Hooks API** while backend with **Spring Boot**.
- Added **Token-based** user authentication using **JWT** and **spring security**.
- **ClearDB** cloud service for **MySql** is used for database. The backend is deployed on **Heroku** while the frontend is deployed on **Netlify**.

ACHIEVEMENTS

- Expert on **Codeforces** (Max rating:**1726**). [HANDLE]
- Qualified **KVPY** 2017 Stage - I