

AKHILESHKUMAR S KUMBAR

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EDUCATION

Northeastern University, Boston

September 2023 - May 2025

Masters of Science in Software Engineering systems GPA - 3.7

Relevant coursework - Object oriented design (Java), User Experience and Web Design, Enterprise Software Design, Program Structure and Algorithm.

BMS College Of Engineering, Bangalore

September 2018 - July 2022

Bachelor of Engineering in Electronics and Communications Engineering, GPA - 3.6

Relevant coursework - Machine Learning, Deep Learning, OOPS using C++, Python programming.

SKILLS

- **Programming Language:** Java, Python, C++, C#
- **Frontend technologies:** HTML, CSS, Javascript, Typescript, React, Redux, Material UI, Tailwind
- **Backend technologies:** Node.js, Rest API, Django Rest Framework, .NET Core, Express.js, Spring-Boot
- **Database Systems:** MongoDB, PostgreSQL, MySQL, SQL
- **Tools:** Apache HTTP server, AWS (EC2, S3, SES), Visual Studio, Eclipse, Postman, Git, Github, Gitlab

WORK EXPERIENCE

Sony India Software Centre, Bangalore, India

August 2022 - August 2023

Role: Software Engineer

- Mastered **.NET** and Integrated improvements to the "Viewing Experience Client" Application, incorporated version display feature into the settings menu which **enhanced the transparency by 20%**
- Revamped a single-screen Multiplexer, implementing a producer-consumer model to seamlessly handle and showcase multiple screens using **MQTT protocol**, resulting in a 40% reduction in screen loading time and enhanced user experience
- Created and deployed "Stateo" on **AWS EC2 instance**, A Single Page Web Application using ReactJS, integrating (Django Rest Framework) DRF for backend APIs, SQLite was used for database management, which decreased the data retrieval time
- "Stateo" enables employees to effortlessly track daily and advance status, which improved team engagement by 25%
- Implemented a role-based authentication with Active Directory for "Stateo"; ensured data integrity and streamlined user access, resulting in improved security and compliance while **reducing login errors by 40%**
- Implemented **AWS Simple Email Service (SES)** for automated daily report notifications to higher authorities, which increased the transparency by 50%

Vrize Solutions Pvt. Ltd, Bangalore, India

February 2022 - July 2022

Role: Software Engineer Intern

- Engineered a seamless transition from a **multi-page web app to a single-page architecture**, utilizing ReactJS and achieved a **40% reduction** in server requests, leading to a 30% improvement in app performance
- Utilized ReactJS and Material UI to overhaul the platform engineering section of the organizational landing page, leading to a 30% enhancement in user engagement and a **20% decrease in page load time**

PROJECTS

TrackSphere - [Github link](#)

September 2023 - November 2023

Objective: A Kanban-inspired task management system, enhancing team coordination with a secure, user-friendly interface

- Built a Web application leveraging Springboot with Model-View-Controller (MVC) design pattern
- Designed an intuitive ReactJS frontend, embracing Kanban-inspired principles (drag and drop feature) to enable efficient tasks management. Employed PostgreSQL for database storage and Postman for testing API endpoints
- Established a role-based hierarchy system (RBAC) and utilized JWT tokens for authentication and session management

Uni Cycle - [Github link](#)

November 2023 - December 2023

Objective: A platform promoting secure transactions for buying and selling used products within university communities

- Built a responsive web application, utilizing ReactJS, Node.js, Express.js, Redux and MongoDB
- Implemented CRUD operations, token based login and deployed the application on AWS EC2 instance
- Integrated product filtering and sorting options based on price, popularity, ratings, and relevance to optimize user navigation

Collaborative code editor -

December 2023 - January 2024

Objective: A simple and easy collaborative text / code editor, for interviews, group projects, and presentations

- Designed and built an intuitive code editing application, utilizing ReactJS, Tailwind, NodeJS, Express and MongoDB
- Implemented Conflict-free Replicated Data Types (CRDTs) for real-time synchronization of code changes
- Utilized Socket.io library to facilitate real-time communication, ensuring synchronized code modifications across multiple users