Mahesh SP

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# Education

**RV College Of Engineering** 2018-2022

*Bachelor of Engineering in Information Science (GPA: 8.57/10) Bengaluru*

# Experience

**IBM Apptio** September 2022 – March 2023

*Software Development Engineer-1 Bengaluru*

* Contributed to the development of **ITP**’s Integrated Investment Planning module features and resolved bugs in the

**Activity Tracking** Module for **Vanguard** Applications, which heavily involved use of spring boot and AWS services.

* Optimized MySQL database queries of Integrated Investment Planning’s **cost center, cost object and LaborActivity**

tables, reducing page load times by **15%** and enhancing overall application performance.

* Implemented numerous UI features for the **ITP** application using **React**, ensuring comprehensive test coverage. This effort resulted in a **10%**increase in client engagement rates, as determined through **A/B** testing.

**IBM Apptio** March 2022 – July 2022

*Software Engineer Intern Bengaluru*

* Contributed to performance optimization efforts through **Router stories** and automation of deployment tasks within the **Van-plat** team.
* Worked on comprehensive debugging and test case development to ensure robust coverage across the codebase, with a focus on both backend and frontend issues within the **ITP** application.

# Projects

**Campus-Buzz** *| [](https://github.com/maheshsp1809/campus-buzz/)* [Github](https://github.com/maheshsp1809/campus-buzz/) *|* [Deployed Link](https://campus-buzzz.vercel.app/) *|* [Demo Video](https://www.loom.com/share/ff57315a859a479e9660bd6baa485c67)

* Developed a feature-rich **Full-Stack** social media platform using Next.js, TypeScript, and a modern tech stack Designed and implemented core features such as post creation, commenting, **Image/video uploads**.
* Designed a scalable and eﬃcient **monorepo**-based application: Implemented a **Prisma**-based backend with a Neontech **Postgresql** database for handling CRUD operations related to posts, feeds, and communities.
* Prioritized core functionality, while adhering to best practices for securing API routes, handled authentication/authorization using nextAuth (**gmail signin**), and optimized database queries for performance.

**NetflixGpt-4** *| [](https://github.com/maheshsp1809/NetflixGpt-4/)* [Github](https://github.com/maheshsp1809/NetflixGpt-4/) *|* [Deployed Link](https://netflix-gpt-4-maheshsps-projects.vercel.app/) *|* [Demo Video](https://www.loom.com/share/56b6dac09fc845d093288024fa540b4c)

* Developed a User-friendly movie exploration platform using React.js, Tailwind CSS, **Redux Toolkit**, **Firebase Authentication**, TMDB API, OpenAI API, and memoization techniques.
* Leveraged the power of **OpenAI’s GPT-3.5** API to integrate natural language movie search capabilities into the

**TMDB API**, enhancing user experience by enabling intuitive and conversational movie searches.

**Urban Sound Classification Using Artificial Neural Networks** *| [](https://ieeexplore.ieee.org/document/10060146)* [Research Paper Published IEEE](https://ieeexplore.ieee.org/document/10060146)

* Developed a Model using **Artificial Neural Networks (ANN) and Used Mel-Frequency Cepstral Coeﬃcients (MFCC)**

feature extraction technique, achieving an accuracy of **87%** on the **Urban Sound 8k** dataset.

* Evaluated the model’s performance using multiple metrics, including **10-fold cross Validation classification accuracy, precision, recall, F1-score, and confusion matrix**.

# Technical Skills and Interests

**Languages**: Java, Python, C++, C, Javascript, TypeScript.

**Technologies**: React js , Node js, Spring Boot, Hibernate, JDBC, JSP,Rest API, Express js, MySql, MongoDB, Postman, Prisma, GraphQl, Monorepo, AWS, Next js, TailwindCSS, Docker, Redux Toolkit, Git, CI/CD Github Actions.

**Concepts**: Data Structures and Algorithms, Object Oriented Programming, Database Management System, Design Patterns, Web Development, Artificial Intelligence and Machine Learning, Computer Networks, Operating Systems. **Other Skills**: troubleshoot and debug software programs, Testing applications, tools, and networks, Analytical reasoning.

# Achievements And Certifications

Ranked **3rd** Position in the IBM Apptio Global Innovation Hackathon for the Project ATMS. Solved **241** coding ninja challenges and more than **450** DSA problems across platforms.

Completed **100-x Devs** Cohort 1 at Appx. Completed System design Course by Gaurav sen.

troubleshooting, debugging, databases, applications, tools, BaseDB service, Cloud Services, design, development, Control plane, data plane, service growth, reliability, quality, operational standards, critical incidents, support escalations, system technologies, OS, Storage, Network, virtualization, Enterprise Linux, Oracle Linux, Redhat, Fedora, problem-solving, technical analysis, non-technical analysis, independent work, cross-functional team, written communications, verbal communications, presentation skills.