

# Punith Kumar P R

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## EDUCATION

Dayananda Sagar College of Engineering, Bengaluru | B.E - Computer Science & Engineering CGPA: 9.06 | 2024  
Mahila Samaja PU College, Kolar | Pre-University (12<sup>th</sup> standard) 91.33 % | 2020  
Sainik Public School, Kolar | SSLC (10<sup>th</sup> standard) 93.12 % | 2018

## SKILLS

**Languages:** C/C++, Python, Java, SQL, JavaScript.

**Tools & Technologies:** Spring-boot, Node.js, Express.js, React.js, MySQL, PostgreSQL, Git, Github, HTML, CSS, TailwindCSS, Docker, Gitlab CI/CD.

## EXPERIENCE

Associate Engineer Intern | **BT Group, Bengaluru** Jan 2024 – Jul 2024

- Developed front end application with **React**, state management using **Redux** & backend applications using **Java Spring boot** and with some **RDBMS's** (MySQL, PostgreSQL, MariaDB based on the projects).
- Team was working on **evolution of legacy system**. Hence Implemented **reactive programming (project reactor)** to enhance Spring Boot applications as it is asynchronous.
- Containerized applications using Docker, employed **Docker-in-Docker (DinD)** for setting up Gitlab project runners and used **Gitlab CI/CD pipelines** to build, test and deploy.
- Search filtering using specification with JWT authentication - Initial task on Spring Boot and React [ [code](#) ].

Intern | **Brane Enterprises Pvt. Ltd., Bengaluru** Jun 2022 – Jan 2023

- Analysed & implemented functions and **API's** required for the existing **Java Spring boot backend application**.
- Recognizing the need to optimize data retrieval times and reduce database load for our traffic APIs, configured **caching mechanism using Redis** within the application.
- Enhanced the code in the existing functions of the application and debugged the bugs present in the application. Learnt and used the **API tool Postman** to build, test and modify the REST API's.

## PROJECTS

**Moovy** | [ [code](#) ] Aug 2024 – Present

- Developed a **Java Spring Boot server** for a movie application, which exposes **API endpoints** for **listing movies, filtering movies based on Genre, advanced search filters, top rated movies**. User login, **watchlist, watched movies** etc.
- This is an application similar to IMDb to store and **provide details about the movies**. Used MySQL to create a comprehensive database structure with relations to store and manage data.
- Tech stack:** Java, Spring-boot, MySQL, JPA, Maven, REST API's

**Lipi** | [ [code](#) ] Mar 2023

- Web Application**, which is used to **extract the text from the images/scripts** of various languages and **translates it to various languages**.
- Tesseract Optical Character Recognition** engine is used for extracting text from the images. Used tesseract.js module in node.js to achieve this. Used Translator from **googletrans** library in python for translation of languages.
- Tech stack:** Node.js, Express.js, MongoDB, EJS, Tesseract, Flask (Python).

**News Connect** | [ [code](#) ] Jun 2023

- Web application**, which helps to get the articles related to a topic from the authentic sites (**web scraping**) based on the **filters (from date, to date and keywords)**.
- Users of the applications can **save those articles he/she searched for the future reference**.
- Tech Stack:** Node.js, Express.js, React.js, MongoDB, Web scraping.

## ACHIEVEMENTS

**Best Project Award** | Project Open Day – 2024, DSCE May 2024

- We won this award in Project Open Day (where all the final year Projects are presented and evaluated) for our **Augmented Reality** Project named **“AR Sculpt”**. [ [Journal Paper](#) ] | [ [android app](#) ]

**Top 5** | Hackathon++ Nov 2022

- Our **IoT** Project named **“IoT based 2-side safety vehicle”** [ [code](#) ] was in top 5 in the Dept. level hackathon hosted by Dept. of CSE, DSCE.

## EXTRACURRICULAR ACTIVITIES

**Lead** | **IoT Innovation Club, DSCE** Dec 2021 – Aug 2023

- The IoT Club in DSCE endeavours to teach students about IoT and get them interested in innovation and research. As a lead of this club, I conducted 10+ workshops on Arduino, ESP32, etc.