Mahesh Kumar S

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EDUCATION

- **BNM Institute of Technology**   Bengaluru, IND
  bachelor's in Information Science and Engineering; CGPA: 8.73   *Aug 2017 - Aug 2021*
  Courses: Operating Systems, Design and Analysis Of Algorithms, Data Structures, Computer Networks, Object Oriented Concepts, Database
  Management System.

SKILLS SUMMARY

- **Languages**: Java, C++, Python, C, Unix scripting
- **Databases**: SQL, MongoDB, Firebase
- **Cloud Technologies**: AWS, Microsoft Azure
- **Frameworks**: Spring Boot, Flask, Django, React
- **Tools**: Intellij, VsCode, GIT, Kubernetes, Docker, Postgres

EXPERIENCE

- **Perfios Software Solutions (Aug 2022 - Current)** - Software Development Engineer
  - Extensive experience in working with microservice architecture in Spring Boot, designing and implementing APIs that adhere to industry best practices.
  - Implemented new APIs based on application requirements, leveraging Spring Boot framework and following RESTful design principles.
  - Demonstrated expertise in writing efficient MongoDB and SQL queries to optimize data retrieval and manipulation.
  - Experienced in working with both relational (SQL) and NoSQL (MongoDB) databases, adapting to specific application needs.
  - Collaborated closely with cross-functional teams to gather requirements, refine API specifications, and ensure seamless integration across microservices.
  - Conducted comprehensive testing and debugging to deliver high-quality APIs with minimal issues.
  - Actively participated in code reviews, ensuring adherence to coding standards, identifying potential issues, and providing constructive feedback to fellow developers.

- **Thoughtclan technologies Pvt. Ltd. (Aug 2021 - Aug 2022)** - Software Engineer
  - Designed and implemented robust REST APIs using Spring Boot, Hibernate, and SQL to ensure seamless communication and data exchange between the front-end and back-end systems
  - Played a key role in debugging APIs, identifying and resolving major issues from a back-end perspective, thereby enhancing the overall performance and stability of the application.
  - Utilized scripting languages to automate manual tasks that were previously performed manually, significantly reducing the time taken to complete these tasks and improving overall productivity.
  - Actively collaborated with cross-functional teams, including UI designers, front-end developers, and stakeholders, to align the back-end functionality with the application requirements.
  - Worked closely with databases, utilizing SQL queries and optimizations to enhance data retrieval and manipulation efficiency.

- **Cognizant (Feb 2021 - Jul 2021)** - Internship
  - Demonstrated proficiency in Java programming language, utilizing it for application development.
  - Gained practical experience in developing applications using the Spring Boot framework.
  - Acquired knowledge of SQL databases and wrote queries for data retrieval and manipulation.
  - Utilized Git for version control, ensuring efficient code management and collaboration.

PROJECTS

- **Performance Analysis of a Cricketer by Data-Visualization (Aug 2020 - May 2021)**
  - Developed a website using Flask framework to analyze a cricketer player performance and player's score prediction.
  - Analysis of a player is shown in a graphical representation using AM Charts

- The prediction is done using Microsoft azure machine learning studio. Here the regression model is built for prediction and API is generated. The API generated is integrated in the website
- **Newsbix (Feb 2020 - Apr 2020)**
  - Newsbix is a News Reader mobile application built in Android Studio
  - News API is integrated into this project to get the live news
- **Voice controlled car (Aug 2019 - Nov 2019)**
  - Developed a car prototype using IOT components which was fully controlled by the human voice
  - Developed using Arduino UNO, HC05 Bluetooth module, ultrasonic sensor
- **Heart Attack and Diabetic Predictor (May 2019 - Jul 2019)**
  - Developed a GUI for predicting Heart Attack and diabetes by Machine Learning using a Support Vector Machine Algorithm
- **Life Insurance Management System (Mar 2019 - May 2019)**
  - A Website for users to purchase Life Insurance
  - Developed using HTML, CSS, JavaScript, PostgreSQL, and PHP

Research Papers

- **Performance Analysis of a Cricketer by Data Visualization** presented at International Journal for Research in Applied Science and Engineering Technology, January 2022
- **Impact of Urbanization on the Physicochemical Parameters of an Urban Water Body of Bellandur Lake in Bangalore City, Karnataka, India** presented at IOSR Journal of Applied Chemistry, July 10,2018

Poster Presentation

- **Impact of Urbanization on the Physicochemical Parameters of an Urban Water Body of Bellandur Lake in Bangalore City, Karnataka, India** presented at International Conference on "Green Methods for Seperation, Purification and Nanomaterial Synthesis", held at CNMS-Jain University, Bengaluru, Indian. April 24 25, 2018

Workshops

- **IOT Workshop :** workshop conducted by Kanektify Academy held at BNMIT
- **Python with Machine Learning :** workshop conducted by Tequed Labs held at BNMIT
- **Application Development with Micro services Architecture :** Workshop conducted at BNMIT
- **Application development using NodeJS and MongoDB :** Workshop conducted at BNMIT

Certifications

- **Architecting with Google Compute Engine :** Coursera
- **Programming for Everybody (Getting Started with Python) :** Coursera
- **Python Data Structures :** Coursera

Awards and Achievements

- **2nd International Conference on Recent Innovation in Science, Engineering and Technology :** Presented paper titled "Performance Analysis of a Cricketer by Data Visualization"
- **Honoring certificate by IOSR :** Achieved for publishing paper in IOSR
- **3rd price in Hackathon held at CMRIT :** Achieved for building Smart Water Meter project
- **Best project award at BNMIT :** Achieved for developing Voice controlled car
- **Youth For Parivarthan :** Volunteered in NGO activities conducted by youth for parivarthan