Alagappan P

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SKILLS

LANGUAGES
Java | JavaScript | HTML | CSS | SQL
FRAMEWORKS
Spring Boot| Next.js | React.js | MUI|
Hibernate |
TOOLS
Git | Postgresql | MySQL |
PLATFORMS
windows | Ubuntu |

LINKS

Github: **github.com/azhagu-swe**
Portfolio: **azhagu-swe.github.io**

EDUCATION

H.H.THE RAJAH'S COLLEGE
M.Sc in Computer Science
Sep 2020 | Pudukottai, Tamil Nadu
Percentage : 74 %

H.H.THE RAJAH'S COLLEGE
B.Sc in Computer Science
April 2018 | Pudukottai, Tamil Nadu
Percentage : 71 %

VALAMPURI VADUGANATHAN HR. SEC.SCHOOL
2015| Pudukottai, Tamil Nadu
Percentage : 64 %

GOVT. HR. SEC. SCHOOL
2013| Pudukottai, Tamil Nadu
Percentage : 89 %

ACHIEVEMENTS

Debugging Competition:
Secured **Second Prize** in Debugging Competition, held at *National College*, Trichy.

CERTIFICATIONS

- **Full Stack Java Development Course** *SkillUP by Simplilearn*, 2022
- **Java Certification Course** *SkillUP by Simplilearn*, 2022

SUMMARY

Full-Stack Developer with 2+ years of experience in creating scalable software solutions using Java and Spring Boot. Proven ability to reduce latency (40Skilled in developing responsive, user-friendly interfaces with Next.js and React.js, delivering robust applications in high-traffic environments.

EXPERIENCE

MEMOB PLUS PVT LTD | Junior Software Developer
Apr 2023 -- Present | Chennai, Tamil Nadu

- Modernized a legacy DSP by updating its **UI** and **API** for better performance.
- Developed scalable **RESTful APIs** using **Java** and **Spring Boot** to lower latency.
- Built dynamic front-end components with **Next.js** for interactive interfaces.
- Integrated **Redis** caching and **RabbitMQ** for efficient asynchronous processing.
- Reduced API latency by 40% using targeted **Redis** caching.
- Improved **PostgreSQL** performance by 30% via index tuning and query optimization.
- **Tech Stack**: Java, Spring Boot, RabbitMQ, Redis, Next.js, Redux, MUI.
- **Database**: PostgreSQL.

MEMOB PLUS PVT LTD | Software Developer Intern
Aug 2022 -- Feb 2023 | Chennai, Tamil Nadu

- Optimized database queries to speed up data retrieval.
- Implemented custom proximity hash in **Java** for advanced geospatial targeting.
- Developed a proximity hash algorithm in **Java**, boosting location targeting accuracy by 15%.
- **Tech Stack**: Java, Spring Boot, RabbitMQ, Redis, React.js, Mapbox, MUI.
- **Database**: PostgreSQL.

PROJECTS

PORTFOLIO Next.js Application
Sep 2024 | Live Demo | Git: Portfolio

- Built a responsive portfolio with dynamic project filtering, increasing user engagement by 25%.
- Achieved 95+ Lighthouse performance score using Next.js static site generation.
- **Tech Stack**: Next.js, TypeScript, React.js, MUI.

GEOHASH PROXIMITY ENGINE Java Geospatial Utility
May 2023 | Git: Proximityhash-javas

- Converted Python's ProximityHash library to Java for geohash generation with 10-meter accuracy.
- Reduced geohash generation time by 20% compared to the Python version.
- Deployed in a production DSP to target over 1M mobile devices via geohash lookups.
- **Tech Stack**: Java, Geohash Algorithm, GeoRaptor Compression.