RAMASWAMY IYAPPAN

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SKILLS

Frontend: React, Angular, HTML, CSS, JavaScript, TailwindCSS, Bootstrap, Sass, jQuery, Node.js, Postman
Backend: Spring, Java, Python, MySQL, Snowflake, DBeaver, pgAdmin
Tools: VSCode, IntelliJ, Sublime Text, GitHub
DevOps: AWS, CI/CD, Kubernetes, Docker
Certifications: AWS Certified Developer Associate, Solutions Architect Associate, and Cloud Practitioner

EDUCATION

George Mason University   Jan 2022 - Dec 2023
Master of Science in Computer Science   *Fairfax, VA*
- Relevant Coursework: Web Development, Component-based Development, Analysis of Algorithms, DevOps

Vels University   Aug 2016 - May 2020
Bachelor of Science in Computer Science   *Chennai, India*
- Relevant Coursework: Data Structures, Software Design, Object Oriented Programming, Differential Calculus

EXPERIENCE

Data Science Intern   Jan 2023 - Dec 2023
US LBM   *Dallas, TX*
- Developed **demand forecasting models** for a leading national distributor, achieving a **MAPE** of less than **20%** for over **70%** of SKUs using a **Stacking Ensemble** approach.
- Employed advanced time series forecasting methods, including ARIMA, XGBoost, and Auto Deep AR, to **forecast sales up to 1 month** ahead at various granularity levels.
- Utilized **Snowflake** for data processing, reducing the data preparation time by **30%**.
- Implemented **clustering techniques** to improve modelling time for per-instance based models and improve **MAPE** for **neural network**-based forecasts.
- Presented forecasting results to stakeholders using **Tableau**, enabling clear and actionable insights for demand planning and supply chain optimization.

PROJECTS

Portfolio Website | *React, Bootstrap, Tailwind CSS*   Jun 2024
- Streamlined website deployment on GitHub Pages, enabling **24/7 availability** with minimal downtime and reliable access for over **10,000 monthly visitors**
- Enhanced performance, achieving a **95+ Google Lighthouse score** for SEO, accessibility, and performance
- Integrated CSS animations and transitions to enhance interactivity, leading to a **25%** increase in user engagement

React Jobs UI | *React, Tailwind CSS, Netlify*   Apr 2024
- Developed a cutting-edge job listing platform with React, featuring real-time search and complex filter capabilities; optimized user experience and reduced search time by **40%**
- Maintained high availability with **99.9% uptime** on **Netlify**, driving a **20%** gain in overall traffic
- Leveraged Tailwind CSS for efficient styling and UI consistency, reducing load times by **60%**

Survey-form Web Application | *Angular, SpringBoot, jQuery, Kubernetes, SQL*   Feb 2022
- Deployed a microservices-based survey application using **CI/CD** pipeline (Jenkins & Docker) on **AWS EC2**
- Reduced deployment time by **50%**, enabling rapid and reliable updates to the EC2-hosted application
- Implemented **Kubernetes Load Balancer** to distribute traffic across 3 pods, boosting availability to **99.9%**

LEADERSHIP AND AWARDS

Marketing Employee of the Year, *Mason Recreation*   Jun 2022 - May 2023
NCC Cadet Award, *Cleared 3 Rifle rounds*   Sep 2013
Manager On Duty, *Mason Recreation*
Piano/Music Instructor *(6+ yrs)*