# Kaviprakash Ramalingam

kavir4118@gmail.com | +1 857-423-9278

 github| linkedin

## EDUCATION

**MS - Information Systems**                                                                                    **Sep 2023 - May 2025**

*Northeastern University*                                                                                                      *Boston, USA*

## SKILLS

| | |
|---|---|
| **Programming Languages** | Java | Javascript (ES6+) | C++ | ABAP | Python | Typescript |
| **FrontEnd** | Bootstrap | CSS3 | HTML5 | ReactJs | NextJs | Redux | SASS | SAPUI5 | Tailwind CSS |
| **Java Ecosystem** | Kafka | Hibernate | JPA | OpenAPI | Spring Boot | Socket.IO | Spring Security | Tomcat |
| **Tools** | Docker | Git | GitHub Actions | Jenkins | Kubernetes | Terraform | ELK | Grafana | SAP |

## EXPERIENCE

**Renault Nissan**                                                                                                           **Apr 2021 - Aug 2023**

*Sr. Fullstack Software Developer*

- Lead Software Engineer for Renault's ISIT systems, managing **1,500 global supplier sites** across **25 countries**
- Owned several SAP BTP-based enterprise applications handling e2e development and delivery
- Extended Fiori with custom **React** UIs, including **50+** modular, reusable components optimizing development efficiency
- Optimized the processing of **20K daily** SAP invoices, improving payment workflow and reducing execution times by 40%
- Implemented SAP OData service integration in a **Spring Boot** application using SAP Cloud SDK, streamlining API consumption by generating type-safe Java clients
- Developed a government-access system for real-time monitoring of Renault's import/export data during the Russian-Ukrainian war, utilizing OAuth2, JWT, and Spring Security to ensure compliance with critical legal requirements
- Redesigned invoice processing systems for Renault's SDV entity, AMPERE, with Spring Boot RESTful APIs for data processing and leveraging automated ETL pipelines to reduce **manual interventions by 50%**, achieving **99% accuracy** in data validation
- Implemented ELK (Elasticsearch, Logstash, Kibana) setup to streamline application logging and advanced TDD adoption within the team, improving code reliability

**Capgemini Technologies**                                                                                            **Jan 2018 - Mar 2021**

*Associate Consultant (SAP Developer)*

- Developed and optimized critical SAP modules (SD, FICO) using ABAP-based reports, BADIs, and BAPIs, **automating processes** to decrease manual data entry errors by 30%
- Led the data migration initiative, transforming and transferring legacy datasets from Oracle DB to the **Cloud SAP HANA**, harnessing ETL processes to enhance data integrity and accelerate in-memory computations
- Integrated heterogeneous systems by configuring FTP with structured IDocs and JSON parsing, facilitating seamless communication between SAP and non-SAP platforms, and streamlining cross-platform data exchange

## PROJECTS

**HORSE and AMPERE - Renault Nissan**                                                                  **Jan 2022 - Aug 2023**

- Renault's EV strategy - Engineered performant web applications using **React** and implemented **Redux** advanced state management, driving a 40% reduction in frontend latency and significantly enhancing user experience
- Leveraged **Redis** for distributed in-memory data storage, and **Elasticsearch** for text search capabilities, achieving a 70% reduction in query response time and enabling sub-second retrievals in high-concurrency environments
- Created RESTful microservices using **Spring Boot**, used **actuators** to diagnose performance bottlenecks. Optimized Thread Pool Settings and JSON serialization for large payloads
- Fine-tuned SQL query performance by maintaining indexes on columnstores, improving query planning, and utilizing temporary tables

**ALCOR - Renault Nissan**                                                                                           **Apr 2021 - Dec 2021**

- Enhanced security by implementing SAP UI masking with **SAPUI5**, integrating Cloud Identity Services (IAS/IPS), and configuring SAP **CRM**, achieving 99% compliance with security standards
- Developed REST APIs with **Apigee**, implementing **OAuth2** for secure communication, enabling real-time synchronization of critical data from Azure into SAP, and enhancing operational efficiency by 25%

**University Food Connect App**                                                                                    **Sep 2023 - Apr 2024**

- Developed a microservices-based food-sharing platform using **React**, **Node**, **Express** and MongoDB, with a scalable infrastructure
- Implemented **Progressive Web App (PWA)** features for offline access and utilized Redux Toolkit to optimize state management
- Integrated federated authentication using **OAuth 2.0 and JWT**, ensuring secure authentication
- Incorporated best practices like code splitting and server-side rendering (SSR) with React & Next to improve performance, along with lazy loading and optimizing database queries for minimal latency
- Enhanced API documentation with Swagger integration and **automated CI/CD** pipelines using **GitHub Actions** for continuous deployment on **AWS EC2**