



Aravindh Ramasamy

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ABOUT ME

Passionate Full Stack Developer with over 6 years of experience in designing, developing, and maintaining scalable web applications and services. Proficient in Java, Spring Boot, and Node.js, with extensive experience in developing back-end web services and front-end web applications using JavaScript, React, HTML, and CSS. Skilled in translating product requirements into scalable software architecture. Adept at working with various development tools and platforms, including AWS, Jenkins, and Maven, to ensure seamless integration and deployment. Committed to continuous learning and leveraging new technologies to deliver innovative solutions.

DIGITAL SKILLS

HTML / CSS / Typescript / React / JQuery / Node JS / Angular / GraphQL / Javascript(Nodejs, Expressjs) / JSF, PrimeFaces / Java / Java 8 Java EE / Rest API / Spring / Spring Boot / Spring Security / Spring cloud / Rabbitmq / Mockito / JUnit / Maven / Microservices / Docker / Microsoft Excel / SQL / Oracle / PostgreSQL / MySQL / AWS / Jenkins / CI/CD / Git / Jupyter notebooks / IntelliJ / Visual Studio Code / Agile SCRUM / Linux / Python (PyROOT, RDataFrame; ML: Keras, TensorFlow) / Machine Learning and Deep Learning / Python, Scikit-Learn, Numpy, Matplotlib / Visual Analytics Tools: Tableau, PowerBI / MongoDB / Mongoose / Agile / Kubernetes (beginner)

WORK EXPERIENCE

Associate

Cognizant [2 Mar 2020 – 11 Sep 2023]

City: Chennai | Country: India

Led end-to-end development of web applications for major clients in insurance and banking sectors. Developed a dashboard for data analysis and visualizations using Tableau, improving decision-making processes for stakeholders. Utilized Python for data manipulation and analysis, resulting in a 20% increase in reporting efficiency. Collaborated closely with cross-functional teams to understand business needs and translate them into technical requirements. Led the development of a customer-facing web application using React, Node.js, and Express.js, improving user engagement by 20%. Implemented a real-time notification system using WebSockets in a Node.js environment, enhancing the user experience with instant updates. Migrated legacy systems to a modern stack, utilizing React for the frontend and Node.js for the backend, resulting in a 30% reduction in page load times.

Full Stack Developer

Aequalis Software Solutions Pvt Ltd [17 Oct 2017 – 28 Feb 2020]

City: Chennai | Country: India

Led the development of user interfaces using Angular and React, integrating with RESTful APIs. Developed backend services with Java and Node.js, focusing on microservices architecture. Utilized AWS for code deployment and infrastructure management. Designed and implemented a full-stack web application using React for the frontend and Node.js for the backend, enhancing system performance and scalability. Developed a real-time analytics dashboard with React and Node.js, providing clients with actionable insights and improving decision-making processes.

Created a suite of microservices with Node.js to handle various business processes, resulting in a more modular and maintainable codebase.

Java Developer

DXC Technology [16 Nov 2016 – 14 Jul 2017]

City: Chennai | Country: India

Developed web applications using Java EE, Hibernate, and front-end technologies like JavaScript/jQuery, CSS, and HTML.
Trained in Corticon for Business Rule Engine development, automating COBOL code.
Created and executed unit tests and performed application testing.
Managed Oracle databases for backend data storage and retrieval.
Utilized design patterns to solve complex programming challenges.

EDUCATION AND TRAINING

MSc Data Science

International University of Applied Sciences [2 Oct 2023 – 30 Sep 2024]

City: Berlin | Country: Germany | Website: <https://www.iu.de/campus/berlin/>

Bachelor of Engineering in Computer Science and Engineering

Sri Shakthi Institute of Engineering and Technology [1 Jun 2012 – 10 Jun 2016]

City: Coimbatore | Country: India | Website: <https://www.siet.ac.in/>

LANGUAGE SKILLS

Mother tongue(s): Tamil

Other language(s):

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

German

LISTENING B1 READING B1 WRITING B1

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

PROJECTS

[15 Jun 2024 – Current]

Development of AI-Based Intrusion Detection System (IDS) Using Machine Learning Algorithms

- **Objective Analysis:** Conducted an in-depth analysis of current IDS technologies and identified key machine learning algorithms suitable for enhancing security in critical infrastructures.
- **Algorithm Selection and Implementation:** Selected and implemented machine learning models, including Decision Trees, Random Forests, SVM, and Neural Networks, to improve the accuracy, precision, recall, and response time of IDS.
- **Performance Evaluation and Integration:** Evaluated the performance of the developed IDS using the UNSW-NB15 dataset and integrated the most effective model into a real-time monitoring system to detect and respond to cybersecurity threats in critical infrastructure.

HONOURS AND AWARDS

Cognizant

Gold Award Achieved 5-star top ratings twice and a 4-star rating once during tenure at Cognizant. Recognized as the best performer with the prestigious Gold Award for two consecutive years.