Jaghan Vishwanathan Ayyappan

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PROFILE

Innovative Full Stack Developer with expertise in Angular, Java, Spring Boot, and UX design. Skilled in building scalable, secure applications with intuitive interfaces. Adept at collaborating with cross-functional teams to deliver high-performance, user-centric digital solutions in dynamic environments.

PROFESSIONAL EXPERIENCE

Associate Engineer - Full Stack Developer   05/2022 – 09/2024
Virtusa Consulting Services Pvt Ltd   Chennai, India
- Engineered high-performance applications using Angular, Java, and Spring Boot, improving application speed by 30%.
- Implement security best practices to protect against common web vulnerabilities such as SQL injection.
- Integrated JWT-based authentication & OAuth, enhancing system security and preventing unauthorized access.
- Developed and deployed unit & integration tests, improving code reliability by 60%

Intern - Full Stack Developer   01/2022 – 04/2022
Virtusa Consulting Services Pvt Ltd   Chennai, India
- Document code, APIs, and system architecture to facilitate future maintenance and onboarding of new team members.
- Design and implement user interfaces with a focus on usability and aesthetics.
- Collaborate efficiently with team members.
- Enhance code quality through rigorous development practices and optimization methodologies.

EDUCATION

Master of Science (M.Sc.)   10/2024 – present
Technische Universität Darmstadt   Darmstadt, Germany
  Information and Communication Engineering

Bachelor of Engineering (B.E.)   08/2018 – 04/2022
Anna University   Chennai, India

CERTIFICATES

Oracle Certified Associate, Java SE 8 Programmer 🔗 | Foundations of UX Design - Google

PROJECTS

PlazaPalooza

Led the **front-end team** for an AI-driven board game, designing a high-performance UI with **Angular & TypeScript**. Implemented **state management**, optimized API handling, and applied **UX design principles** for an engaging experience. Ensured **scalability** with a modular architecture.

Detection of Bone Fracture using Image Processing

Built an AI-powered diagnostic system using **MATLAB & machine learning** for fracture detection. Achieved **85% accuracy**, reducing manual analysis time by **60%**, and enhanced computer vision techniques for improved anomaly recognition.

Integrated Soldier Security System

Developed a **wearable IoT device** for real-time tracking of soldiers' vitals, location, and field visuals. Implemented **live satellite data streaming** and a **low-latency communication** system for mission-critical updates.

Biometric Attendance using Cloud

Created a cloud-based biometric authentication system with **fingerprint & facial recognition** for secure workforce management. Built using Raspberry Pi & AWS, ensuring **scalability & real-time data security**.

E-Kart

Developed an Angular-based e-commerce platform with **secure transactions** and an **intuitive user experience**, featuring a responsive UI, **AuthGuard enforcement** for robust security, and integrated seller management tools using Angular, TypeScript, Node.js, and SQL.

SKILLS

Front-End — *Angular, TypeScript, React, JavaScript, HTML & CSS, Bootstrap, RxJS*, **Back-End** — Java, Spring (Spring Boot, Spring Security), NodeJS, Maven, Python, **Testing** — Unit Testing, Karma, Jasmine, **UX & Design** — User Experience Design (UX), Figma, Adobe Creative Cloud, Adobe XD, **Tools & Platforms** — Git, Jira, Postman, Microsoft Office, **Databases** — SQL

LANGUAGES

English
C1

German
A1

Tamil
C2