Jaghan Vishwanathan Ayyappan

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🪪 PROFILE

Motivated and detail-oriented Master's student in Information and Communication Engineering at TU Darmstadt with hands-on experience in full-stack development, UX/UI design, and website management. Skilled in building responsive, scalable web applications using Angular, TypeScript, HTML/CSS, and WordPress. Passionate about delivering user-focused solutions and enhancing digital experiences.

💼 PROFESSIONAL EXPERIENCE

05/2022 – 08/2024
Chennai, India

Associate Engineer - Full Stack Developer
Virtusa Consulting Services Pvt Ltd
- Developed high-performance web applications using **Java** and **Angular**, improving system efficiency by **30%** through optimized code and UX/UI refinements.
- Designed and implemented responsive front-end interfaces with Angular, HTML, and CSS, ensuring **accessibility** and cross-browser compatibility.
- **Led UX/UI design workflows**, from creating wireframes and prototypes in **Figma** and **Adobe XD** to developing pixel-perfect UI components, streamlining the design-to-development pipeline.
- Oversaw front-end team hiring by conducting technical interviews, aligning candidate profiles with project requirements, and delivering knowledge transfer sessions to onboard new team members.

01/2022 – 04/2022
Chennai, India

Intern - Full Stack Developer
Virtusa Consulting Services Pvt Ltd
- 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.

🏠 VOLUNTEER EXPERIENCE

04/2025 – Present
Darmstadt, Germany

TU Darmstadt Space Technology e.V.
Public Relations and Web Development
- Developing the official BVSR Conference website ↗ , ensuring responsiveness and alignment with the organization's branding
- Design and publish visually appealing, technically accurate posts to communicate complex aerospace projects in a clear and engaging way to diverse audiences.
- Coordinate with internal project teams to highlight milestones, events, and achievements through timely and effective communication.

🪪 CERTIFICATES

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

🎓 EDUCATION

10/2024 – present Darmstadt, Germany	**Master of Science (M.Sc.)** Technische Universität Darmstadt Information and Communication Engineering
08/2018 – 04/2022 Chennai, India	**Bachelor of Engineering (B.E.)** Anna University Electronics and Communication Engineering

🧠 SKILLS

Web & Front-End
Angular, TypeScript, React, JavaScript, Wordpress, HTML & CSS, Bootstrap, RxJS, PHP

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 (Photoshop, Lightroom, Illustrator, Premiere Pro), Adobe XD

Softwares, Tools & Platforms
Git, Jira, Postman, Microsoft Office, MATLAB

Databases
SQL

Soft Skills
Communication, Team Collaboration, Leadership, Problem Solving, Adaptability, Time Management, Critical Thinking, Mentorship, Attention to Detail, Conflict Resolution

📂 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.

🌐 LANGUAGES

English	**German**	**Tamil**
C1	A2	C2