

Neethila Kumararatne

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Professional Summary

Motivated and self-driven software engineer with strong skills in Full Stack Web, Desktop, and Mobile application development. Quick to adapt and passionate about learning modern technologies, with a focus on building high-quality, user-centered software solutions. Recognized for strong communication skills and a practical, solution-oriented mindset, with a commitment to continuous growth. Looking forward to contributing to innovative development teams and evolving into a results-driven professional in the software industry.

Technical Skills

Technical Skills: React, Angular, Bootstrap, Tailwind CSS, Material UI, HTML5, CSS3, JavaScript, TypeScript, WordPress, Java Servlets (Java EE / Jakarta EE), Spring Boot, Node.js, Express.js, .NET, ASP.NET, PHP, Flask, FastAPI, Flutter (Dart), MongoDB, Firebase, MySQL, MS SQL, Java, Dart, Python, C#, MATLAB, Scikit-learn, PyTorch, Supervised & Unsupervised ML model development, CI/CD, Docker, Git, GitHub, Figma, Canva, Adobe Photoshop, Adobe Premiere Pro, FL Studio

Interpersonal Skills: Communication, Stakeholder Collaboration, Problem-Solving, Analytical Thinking, Independent Work, Creativity, Innovation, Leadership, Passionate, Open-Mindedness, Continuous Learning

Education

University of Plymouth (NSBM)

Mar 2022 – Dec 2025

Bachelor's degree with **First Class Honours** in Software Engineering (Faculty of Computing)

Plymouth, UK

Projects

EduPulse – Machine Learning-Driven Targeted Email Marketing Platform

React (Vite), TypeScript, Tailwind CSS, Node.js (Express), Python (FastAPI), MongoDB, Redis, SendGrid, Docker, Selenium, Recharts, scikit-learn, Git.

- Developed a full-stack application using React, Node.js, and FastAPI, integrating ML-driven audience segmentation with K-Modes and Agglomerative hierarchical clustering.
- Implemented automated email scraping with Selenium and built a GDPR-compliant delivery system using SendGrid and Redis Bull.
- Built a real-time analytics dashboard to track open rates, click-throughs, and conversion metrics, enhancing data-driven decision-making.

Furniture Design & Visualization Application

React (Vite), Three.js, Tailwind CSS, HTML Canvas API, GLB models, HDR environment maps, WebGL.

- Built an interactive design tool using React.js, Three.js, and Tailwind CSS, enabling furniture arrangement, real-time material updates, and 3D visualization with lighting effects.
- Implemented 2D layout tools with the HTML Canvas API and 3D rendering using WebGL and HDR environment maps for photorealistic output.

Behavioral Biometric Authentication System

MATLAB (Deep Learning Toolbox)

- Developed a classification model using MATLAB's Deep Learning Toolbox to authenticate users based on unique acceleration-based movement patterns.
- Designed and trained the ML model to analyze behavioral biometrics, achieving accurate user identification through movement pattern recognition.

Jobee - Job Posting & Finding Mobile Application

Flutter, Dart, Firebase Firestore, Firebase Authentication, Android SDK, Git.

- Built an interactive design tool using React.js, Three.js, and Tailwind CSS, enabling furniture arrangement, real-time material updates, and 3D visualization with lighting effects.
- Implemented 2D layout tools with the HTML Canvas API and 3D rendering using WebGL and HDR environment maps for photorealistic output.

Supermarket E-Commerce Website

Java Servlets, JSP, MySQL, PayPal API, Twilio SMS

- Developed a full-stack e-commerce platform for organic groceries with admin/customer portals, real-time inventory, and secure PayPal payments.
- Implemented session management, email/SMS notifications, and responsive UI using Java Servlets/JSP, with Twilio API for order alerts.

Experience

Fiverr International

Mar 2022 - Present

Professional Freelancer (Level 2 Seller on Fiverr with 200+ 5-Star Reviews)

Remote

- Delivered 200+ projects for international clients, focusing on graphic design, UI design, audio production, and web development.
- Designed and developed responsive WordPress websites, implementing custom layouts and optimizing user experience.
- Created user interfaces and visuals using tools like Figma, Adobe Photoshop, and Canva.
- Communicated directly with clients to gather requirements, iterate on feedback, and ensure timely delivery of high-quality work.
- Built a strong reputation for professionalism, creativity, and technical problem-solving - skills now applied to software engineering and application development.

Awards & Certificates

[Foundational C# with Microsoft](#)

[Agile Scrum Practices](#)

References

Mr. Gayan Perera (Lecturer) NSBM - Department of Computer and Data Science.

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