



UPEKSHA AMANDI



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SUMMARY

A highly motivated BSc (Hons) Computer Science graduate (Second Class Upper Division) from the University of Plymouth, with hands-on experience in full-stack development, AI/ML, and software testing. Passionate about leveraging technical skills to build innovative solutions, I thrive in collaborative environments and am committed to continuous learning. Strong problem-solving abilities, attention to detail, and a proactive approach to challenges define my work ethic.

TECHNICAL EXPOSURE

- **Frameworks & Libraries:** React JS, Node JS, Next JS, React Native, Flutter, CSS
- **Languages:** C, C#, Python, Dart, JavaScript, Java, PHP, R
- **Database & Cloud:** MySQL, MongoDB, Firebase, Snowflake
- **Data Analytics & BI:** Power BI, AI/ML (Machine Learning concepts)
- **Testing & QA:** Manual Testing, Selenium, Postman (API Testing), UI/UX Testing
- **Tools & Platforms:** Git, Github, Visual Studio, Visual Studio Code, Android Studio, Figma, RStudio, MATLAB, Canva, Postman, Firebase Console

SOFT SKILLS

- Analytical Thinking.
- Continuous Learning and Improvement Team Collaboration.
- Organizational Skills.
- Strong Problem - Solving Skills.
- Attention to Detail.
- Ability to work under pressure and meet deadlines.

PROJECTS

AI-Based Personalized Diet Planner For Office Workers

May 2025

Technologies: Flutter | Firebase | Python | Scikit-learn | Google Health Connect

- Developed a cross-platform mobile app for personalized diet plans using AI (KNN algorithm).
- Integrated real-time health tracking (BMI, BMR, activity levels) via Google Health Connect.
- Implemented Firebase Auth, Hive for local storage, and push notifications for meal/hydration reminders.
- Conducted API testing (Postman) and UI validation for seamless user experience.

HCI Interactive Furniture Selection Application

April 2025

Technologies: Java (Swing) | Figma | JavaScript | HTML | CSS

- Designed an Agile-based desktop app with interactive 3D furniture visualization.
- Created low/high-fidelity prototypes in Figma, followed by usability testing (formative & summative).
- Ensured error-free UI components and optimized user flows through iterative feedback.

Library Management System (BookNest)

January 2025

Technologies: React.js | Node.js | Express.js | MongoDB | AWS S3

- Built a full-stack system with JWT authentication, role-based access (Admin/Librarian/Patron), and WebSocket notifications.
- Deployed CI/CD pipeline via GitHub Actions; used AWS S3 for secure image storage.
- Performed regression testing and API validation (Postman) for reliability.

Portfolio Website

JUNE 2025

Technologies: HTML | CSS | JavaScript

- Developed a responsive portfolio with animated UI, EmailJS contact forms, and GitHub Pages deployment.
- Tested cross-browser compatibility and mobile responsiveness.

Productivity Monitoring System

2024

Technologies: React.js | Node.js | Python | MongoDB

- Developed web application to track and analyze employee productivity. Monitored activities, provided reports, and ensured user privacy.

Campus Connect Accommodation Portal

2024

Technologies: React.js | CSS, Next.js | Node.js | MongoDB

- Created a platform for NSBM students to find housing, with property listings and warden oversight.
- Automated user-flow testing (Selenium) and validated input forms for error handling.

Smart Marine Aquarium Monitoring System

2024

Technologies: Arduino for hardware | Arduino IoT cloud

- Developed aquarium monitoring system with sensors and a web/mobile app. Enabled remote management to ensure optimal conditions for marine fish well-being

EAT MORE Mobile App

2024

Technologies: Flutter | Dart | Firebase

- Developed "EAT MORE" mobile app for 24/7 food ordering. Enhanced user experience with a diverse menu, secure payments, and seamless functionality

EDUCATION

BSc (Hons) Computer Science (Second Class Upper Division)

2022–2025

University of Plymouth

- Specializations: AI/ML | Big Data Analytics | Data Structures and Algorithms | Full-Stack Development (WEB|Mobile)

EXTRACURRICULAR ACTIVITIES

Badminton Player

2022 – 2023

Badminton Team – NSBM Green University

Executive Member

2022 – 2023

NSBM Buddhist Society – NSBM Green University

Volunteer

2022 – Present

FOSS Community – NSBM Green University

Volunteer

2022 – Present

IEEE Student Branch – NSBM Green University

REFERENCES

Mr. Gayan Perera (Lecturer)

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