THINU UPADYA

Full-Stack Developer | Software Engineer

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PROFESSIONAL SUMMARY

Accelerated Associate Software Engineer and Computing Batch Top Performer with a proven track record of architecting high-performance full-stack applications and enterprise web systems. Skilled across the full backend and frontend stack PHP/Laravel, Python, and JavaScript/TypeScript with React and Next.js with hands-on experience designing and consuming REST APIs and modeling relational data in MongoDB, Firebase, MySQL and PostgreSQL. Comfortable working within Agile/SCRUM teams (sprint planning, standups, retros) alongside senior engineers, QA, and product to ship features end to end. Adept at managing the entire software development lifecycle, from high-fidelity Figma UI/UX prototyping to deploying scalable MERN and Next.js solutions that significantly optimize data latency and operational efficiency. Recognized for combining technical rigor, clean and testable coding practices, and a strong engineering work ethic to deliver reliable, business-critical cloud solutions in fast-paced environments.

TECHNICAL SKILLS

- **Languages:** JavaScript, TypeScript, Python, PHP, Java, C#, C++, SQL, HTML5, CSS3
- **Backend & Frameworks:** PHP/Laravel, Python (Django, Flask, FastAPI), .NET/C#, Node.js, Express.js
- **Frontend & Frameworks:** React.js, Next.js, Angular, Redux Toolkit, Tailwind CSS, Bootstrap
- **APIs & Auth:** RESTful API Design & Integration, JWT Authentication
- **Databases:** MySQL, PostgreSQL, MongoDB, Firebase, Firestore
- **Cloud & DevOps:** AWS (EC2, S3 basic), Firebase Cloud Functions/Admin SDK, Docker, Vercel, CI/CD, GitHub Actions
- **Version Control:** Git and version control workflows (branching, PR/code review)
- **Testing:** PHPUnit, Jest, Unit & Integration Testing, Postman
- **Methodologies:** Agile/SCRUM (sprint planning, standups, retrospectives)
- **CMS & Design:** WordPress, Elementor, Custom Plugin Development, Figma UI/UX, Technical SEO Optimization
- **IoT & Embedded Systems:** ESP32, Arduino IDE, Blynk IoT Platform, Sensor Integration, Smart Automation

PROFESSIONAL EXPERIENCE

Associate Software Engineer | Cybernetics IT Consultancy (PVT) LTD – subsidiary of Cyber Bark LLC, USA
Oct 2025 – Present

- Full-Stack Engineering: Architecting a high-performance MERN stack application for unified Event Management and strict Access Monitoring workflows, reducing data latency by 35% and streamlining concurrent session state management.
- Security & Infrastructure: Engineered custom sub-domain discovery and passive reconnaissance tools to map asset attack surfaces, proactively identifying 10+ edge vulnerabilities.
- Enterprise Web Ecosystems: Designing, extending, and maintaining enterprise-grade WordPress systems for global corporate clients, achieving 99.9% uptime and eliminating plugin-driven resource leaks.
- Agile Delivery: Partnering with cross-functional international engineering teams within an Agile/Scrum framework to translate product scopes into high-fidelity system architecture blueprints.

Software Engineer Intern | Cybernetics IT Consultancy (PVT) LTD – subsidiary of Cyber Bark LLC, USA
Oct 2024 – Oct 2025

- WordPress Engineering: Developed and deployed 5+ highly optimized, secure, and responsive corporate business websites from inception to launch, boosting digital pipeline efficiency.
- AI Integration: Engineered and integrated a custom WordPress chatbot using conversational APIs, automating 55% of routine customer inquiries and optimizing client onboarding workflows.
- UI/UX Design: Translated abstract requirements into interactive wireframes, user journeys, and component layouts via Figma using a strict, pixel-perfect design aesthetic.
- Performance & SEO: Executed comprehensive technical SEO audits and code refactoring that improved overall page load speeds by 25% and drove organic domain visibility.

TECHNICAL PROJECTS & ENGINEERING EXPERIENCE

Event Management & Access Monitoring System | Cybernetics IT Consultancy | 2026

- Scope: Co-developed a comprehensive, full-stack group system designed to close real-world security gaps in modern event spaces.
- Features: Engineered unified modules covering secure ticketing, precise live attendee tracking, strict access control logic, and a central real-time monitoring dashboard.
- Contribution: Contributed heavily across the full technical stack, writing clean React frontend interfaces, scalable Node.js RESTful APIs, and optimizing the MongoDB database layer.

Business Websites | Cybernetics IT / Cyber Bark LLC | WordPress, Elementor | 2024 – Present

- Scope: Delivered multiple live production websites: Cyberbark360, Cyber Bark LLC, IT Mayor and Cybernetics IT Consulting.
- Impact: Serving real users with integrated analytics and marketing tools, achieving fully responsive behavior across enterprise landing pages.

Smart Crop Monitoring & Irrigation System | Final Year Project | IoT, ESP32, Arduino C++, Blynk IoT Platform | 2026

- Scope: Architected an automated environmental control and crop irrigation system powered by real-time data streaming.
- Features: Integrated soil moisture and environmental sensors with ESP32 microcontrollers to trigger hardware water pumps based on environmental thresholds.
- Monitoring: Programmed custom firmware using the Arduino IDE and built a centralized Blynk cloud dashboard for live, remote performance tracking.

Research Lead | AI Productivity Evaluation Framework (RAPEF) | Academic Research Project (Supervised by Mr. Anis Saboordeen) | 2026

- Designed a rule-based framework and a weighted scoring algorithm to mathematically evaluate the impact of AI tools on code velocity.
- Analyzed parameters across execution speed, structural quality, and security vectors to build an analytical productivity metrics matrix.

CV ATS Scanning Tool | Individual Project | TypeScript, Firebase, API Integration | 2025 | Live

- Scope: Built a solo full-stack web application enabling job seekers to analyze their resumes for parsing compatibility against modern tracking systems.
- Features: Integrated the API to analyze raw resume structural blocks and return intelligent, contextual feedback alongside live, real-time data handling powered by Firebase.

EDUCATION

BSc (Hons) in Software Engineering | Canterbury Christ Church University, UK
Currently Pursuing — Expected Completion: 2027

Higher National Diploma | Pearson BTEC | BCAS Campus – Colombo, Sri Lanka
Graduation: 2026

- Academic Standing: Batch Top (Demonstrated consistent academic excellence across all semesters).
- Core Focus: Software Engineering, Advanced Database Systems, Cloud Computing, and IoT Architecture.
- Notable Contributions: Acknowledged researcher in AI-assisted developer productivity metrics under faculty guidance.

Diploma in IT & English | Pearson BTEC, London – Colombo, Sri Lanka
Jun 2023 – Dec 2023

- Academic Standing: Graduated with Distinction
- Focus: Core Computer Science Foundations, IT Systems, and Technical Professional English.

G.C.E. Ordinary Level | Sri Lanka Examination Department | 2023

- Results: 5 A's (including ICT, Mathematics, English, Accounting, and Sinhala), 1 B, 3 C's.

AWARDS & ACHIEVEMENTS

- Batch Top Recognition – Formally ranked #1 overall across the computing batch at BCAS Campus.
- Promoted from Software Engineer Intern to Associate Software Engineer within 12 months at Cybernetics IT Consultancy.

CERTIFICATIONS & DEVELOPMENT

- Full-Stack Web Development (MERN) | Coursera
- Automated Software Testing with Jest & Postman | Udemy Verification

LANGUAGES

- English: Professional Working Proficiency
- Sinhala: Native / Bilingual Proficiency