

ASHIN SABU MATHEW

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PROFESSIONAL SUMMARY

Motivated Computer Science and Engineering student specializing in Cyber Security with demonstrated expertise in full-stack web development, database management, and secure application design. Proven track record in competitive programming with national-level hackathon victories including NASA Space Apps Challenge and TinkerHub's Useless Project Hackathon. Proficient in modern development frameworks including Next.js, TypeScript, and Python with strong foundation in data structures and algorithms. Active contributor to technical communities, organizing cybersecurity workshops, coding competitions, and debugging events.

EDUCATION

St. Joseph's College of Engineering and Technology <i>Bachelor of Technology in Computer Science and Engineering (Cyber Security)</i> <ul style="list-style-type: none">CGPA: 9.3/10.0	Palai, Kerala 2023 – Present
International Indian School <i>Higher Secondary Education (Class XII)</i> <ul style="list-style-type: none">Percentage: 94.2%	Riyadh, Saudi Arabia 2022 – 2023

TECHNICAL SKILLS

Programming Languages: Python, Java, C, SQL, JavaScript
Web Technologies: HTML5, CSS3, Next.js, React, Tailwind CSS, FastAPI
Database Management: PostgreSQL, MongoDB
Developer Tools: Git, GitHub, Figma
Core Competencies: Data Structures, Algorithms, Web Development, Cybersecurity, RESTful APIs
Languages: English (Fluent), Hindi (Fluent)

LEADERSHIP & EXPERIENCE

Technical Officer <i>Innovation and Entrepreneurship Development Centre (IEDC)</i> <ul style="list-style-type: none">Provided technical guidance and mentorship to students in project development and prototyping	Feb 2026 – Present St. Joseph's College, Palai
Technical Team Member <i>Cyber Security Association</i> <ul style="list-style-type: none">Provided technical infrastructure support and managed event execution for cybersecurity awareness programsAssisted in conducting vulnerability assessment workshops and ethical hacking demonstrations for student community	May 2024 – Present St. Joseph's College, Palai
Campus Co-Lead <i>TinkerHub Foundation</i> <ul style="list-style-type: none">Coordinated and executed 10+ technical workshops, hackathons, and innovation events, fostering a community of 200+ student developers and makersManaged cross-functional teams to organize coding bootcamps, debugging competitions, and technology awareness programs	Aug 2024 – May 2025 St. Joseph's College, Palai

PROJECTS

Anti-Session-Hijack <i>Node.js, TypeScript, Redis, Security</i> <ul style="list-style-type: none">Developed and published an npm package (2K+ downloads) to detect and prevent session hijacking in web applicationsImplemented fingerprint-based session binding using SHA-256 device identifiers to detect stolen or reused authentication tokensBuilt real-time session verification and hijack detection system using RedisDesigned lightweight, TypeScript-first library easily integrable with Next.js, Node.js, and Express.js applicationsGitHub: github.com/Shield-Ltd/Anti-Session-Hijack-NPM	Jan 2026 – March 2026
Collab AI <i>Next.js, TypeScript, Groq API</i> <ul style="list-style-type: none">Developed a real-time collaborative chat platform with integrated AI assistant supporting multiple simultaneous users	Jul 2025 – Aug 2025

- Implemented instant messaging with AI-triggered responses (@ai mention) for contextual clarifications, content summarization, and creative assistance
- Designed scalable database architecture for persistent chat history and room management
- GitHub: github.com/AshinSMathew/CollabAI

Ashin Cipher | *TypeScript, Next.js, REST API, Cryptography* Jul 2025 – Aug 2025

- Engineered a custom symmetric encryption-decryption system with web interface and RESTful API for secure communication
- Implemented proprietary cipher algorithm with unique key mechanism ensuring end-to-end message confidentiality
- Designed developer-friendly API documentation enabling seamless integration into third-party applications
- GitHub: github.com/AshinSMathew/Ashin-Cipher

Price Peeker | *TypeScript, Next.js, Web Scraping, Vercel* Jun 2025

- Built automated price comparison platform aggregating real-time product data from Amazon and Flipkart using web scraping
- Developed responsive UI with Tailwind CSS ensuring optimal user experience across devices
- Deployed on Vercel with optimized performance and caching strategies for fast data retrieval
- GitHub: github.com/AshinSMathew/Price-Peeker

Resume Builder | *TypeScript, Next.js, NeonDB, Tailwind CSS* Apr 2025 – May 2025

- Created comprehensive resume generation web application with live preview and PDF export functionality
- Implemented cloud-based data persistence using NeonDB for user resume templates and profile information
- Designed intuitive user interface with real-time editing and multiple professional template options
- GitHub: github.com/AshinSMathew/ResumeBuilder

Attendance Calculator | *HTML, CSS, JavaScript* Apr 2025 – May 2025

- Designed web-based attendance tracking tool helping students monitor attendance percentage against institutional thresholds
- Implemented real-time calculation algorithms to determine required or skippable sessions for target attendance goals
- GitHub: github.com/AshinSMathew/AttendanceCalculator

ACHIEVEMENTS

Winner – NASA Space Apps Challenge 2024 Oct 2024

- Developed innovative platform connecting restaurants with NGOs to minimize food wastage using Next.js, Tailwind CSS, FastAPI, and SQL
- Competed against 200+ teams, recognized for technical excellence and social impact by NASA Space Apps & Amal Jyothi College

Best Project – TinkerHub Useless Project Hackathon Nov 2024

- Awarded for most creative and technically sound project among 50+ participants in innovation-focused hackathon

Top 100 Coder – μLearn Coding Leaderboard Nov 2023

- Selected among top 100 performers statewide based on consistent problem-solving excellence and algorithmic proficiency

CERTIFICATIONS

Programming, Data Structures and Algorithms using Python Sep 2024

- Elite Certification with 75% score from IIT Madras through NPTEL online certification program

Responsive Web Design Certification Nov 2023

- Completed comprehensive 300-hour curriculum covering HTML5, CSS3, and responsive design principles (freeCodeCamp)