Shishir Yadav

 ▼ Indianapolis, IN
 \$\frac{1}{317}\$33-3585
 \$\sigma\$ shishiry1712@gmail.com
 \$\frac{1}{127}\$ linkedin.com/in/shishiry1712
 \$\frac{1}{317}\$ shishiryebsite.vercel.app

EDUCATION

Purdue University, Indianapolis

Aug 2023 – May 2025

M.S. in Computer Science

Coursework: Data Mining, OOP, Advanced OS, Networks, Mobile Security, Computer Vision, Cloud Computing

GITAM University, Vizag, India

B. Tech in Computer Science

Coursework: C, Data Structures, OOP with C++, Java, DBMS, Software Engineering, Algorithms

Jun 2017 - Jun 2021

EXPERIENCE

Tata Consultancy Services (TCS)

Jul 2021 - Nov 2022

Systems Engineer

Kolkata, India

- Engineered robust backend workflows using **Dataverse**, **Power Platform**, and **Azure** that reduced client approval times by 80%.
- Streamlined report automation, saving 15+ hours/week and increasing accuracy by 25%.
- Developed 15+ reusable modules to accelerate future builds and standardized deployment pipelines.
- Boosted system observability by optimizing monitoring pipelines, cutting resolution time by 20%.

Wood Cube Software Services LLP

May 2019 - Jun 2019

Jaipur, India

Java Intern

- Created backend modules in **Spring Boot** for hospital appointments; improved scheduling accuracy by 30%.
- Integrated secure **REST APIs** to manage real-time patient and doctor communication. Reducing the time required for communication by 40%.

ACADEMIC PROJECTS

CartVerse - Scalable eCommerce System | Spring Boot, Microservices, PostgreSQL, REST APIs

- Built a production-grade backend for an online marketplace using microservices and RESTful APIs, enabling modular deployment and 20% faster scalability.
- Reduced average order processing time by 20% and integrated secure user authentication, payment flow, and admin controls.

Time Complexity Calculator | JavaScript, Python, Copilot, Web Hosting

- Designed a web-based visualizer for analyzing algorithmic time complexity in real-time, improving code optimization workflow by 50%.
- Incorporated AI-assisted coding tools (Copilot) and deployed the solution on a personal cloud server for 24/7 access.

Women Safety Android App | Java, Android SDK, Google Maps API

- Led a team of 3 to build an emergency safety app with live GPS tracking and automated guardian alerts.
- Decreased average emergency response time by 60% through real-time location sharing and SOS alerts.

Virtual Pet Consultation Platform | React.js, Firebase, Tailwind CSS

- Developed a secure, responsive web platform enabling real-time virtual vet consultations and appointment bookings for 150+ clients/month.
- Expanded client access by 40% and reduced in-person footfall by 50%. Integrated Firebase Auth, Cloud Firestore.

The OnlineStore Admin System | Java, Design Patterns, JSP, Servlets

- Created backend for an admin dashboard using the Front Controller pattern to streamline request handling and modular development for 10+ active modules.
- Enabled vendor onboarding within minutes, improving operational setup speed by 35%.

OS Scheduler Simulator & Custom Shell | C, Linux, System Programming

- Simulated FCFS, SJF, Round Robin scheduling algorithms to analyze CPU burst handling and efficiency.
- Devised a custom Unix shell supporting 50+ command execution, piping, I/O redirection, forking, and synchronization.
- Demonstrated robust multi-process environment design with real-time command handling and error resilience.

TECHNICAL SKILLS & CERTIFICATIONS

Technical Skills

- Languages: JavaScript, TypeScript, Java, Python, C++, SQL
- Frontend: React.js, Next.js, Tailwind CSS, HTML5, CSS3, SCSS
- Backend: Node.js, Express.js, Spring Boot, REST APIs, GraphQL
- Databases: Firebase, PostgreSQL, MongoDB, Oracle DB
- Tools: Git, VS Code, GitHub, Copilot, JIRA, Jenkins, Docker
- Concepts: Responsive Design, SSR, OOP, DSA, Agile, CI/CD

Certifications

- · Microsoft Azure Fundamentals
- · Java for Android Coursera
- · Python Programming Coursera
- Android Development Specialization Coursera