

# K. ATUL SHINCE

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[Github](#) |

[My Portfolio](#) |

## INTRODUCTION

I am a Computer Science undergraduate with a strong foundation in Full Stack Web Development and over one year of practical experience building responsive, user-centric web applications. I design, develop, and deploy scalable solutions using modern web technologies, and I actively contribute to teams with a problem-solving mindset and a passion for clean, efficient code. I pursue knowledge relentlessly, continuously learning new tools and frameworks to stay ahead in the field. My long-term goal is to become a Systems Design and Development Architect, where I can lead teams, architect robust systems, and build impactful products that improve lives.

## EDUCATION

### Sikkim Manipal Institute Of Technology (SMIT)

- Bachelor's of Technology in Computer Science and Engineering
- Relevant Coursework: Database Management Systems, Computer Networks, Operating Systems, Compiler Design, Computer Architecture and Project Management

Aug 2021 – Aug 2025

CGPA: 8.71

## TECHNICAL SKILLS AND CERTIFICATIONS

- **Programming Languages:** C++, C, Java
- **Front-End Web Technologies:** HTML, CSS, Javascript, ReactJS, NextJS, MaterialUI, Bootstrap, Sass, TailwindCSS, Recoil, Redux, Framer Motion, GSAP, Axios, Typescript, Three.js, preact-signals, Web RTC
- **Back-End Technologies:** Node.js, Express.js, MongoDB, Mongoose, Postgres, Prisma, NestJS, TypeORM, Twilio, RESTful API, Docker, Google Firebase, Dialogflow, Socket.io, JWT, AWS S3 Bucket, NGINX, MySQL, Server Sent Events, Next-Auth, passport.js, Razorpay
- **Blockchain:** Hyperledger Fabric, Smart Contracts (Javascript, Typescript)
- **Product Management tools:** Microsoft Office, Draw.io, Notion, Slack, Figma, Canva, Jira, Git, Github, API Spec

## WORK EXPERIENCE

### Centre for Development of Advanced Computing, India

#### Full Stack Developer Intern

May 2024 - Aug 2024

Tech: Microsoft Excel, NodeJS, ExpressJS, MongoDB, Mongoose, TypeORM, pdf-lib, xlsx, Jest, REST API, Docker

- Built and deployed a dynamic certificate generator using NodeJS and MongoDB, reducing processing time by 80%.
- Developed a blockchain-based certificate verification system using Hyperledger Fabric and custom JS smart contracts, cutting verification time by 75%.
- Automated certificate workflows, achieving 3x faster generation and significantly lowering admin overhead.

### Retrac GmbH, Germany

#### Full Stack Developer Intern

Jul 2024 - Nov 2024

Tech: NextJS, MaterialUI, Recoil, Github, NestJS, TypeORM, Slack, Figma, Jira

- Revamped dashboard UI of their rental management application using NextJS and MaterialUI, improving design consistency by 25%.
- Developed and implemented custom reusable, scalable components including breadcrumbs, contracts, and sidebars, to improve functionality and navigation within the dashboard.
- Contributed over 22 pull requests to the repository, with most successfully merged into production.

### Digital Solutions FZCO, Dubai

#### Full-Stack Developer Intern

Jan 2025 – May 2025

Tech: Vite, ReactJS, MaterialUI, TailwindCSS, Figma, Cypress, Github

- Spearheaded the design and development of a custom UI component library inspired by Modernise Admin Dashboard to streamline internal development workflows and reduce time-to-market.
- Led the creation of a comprehensive design system in Figma, ensuring visual consistency and scalability across all components and design tokens. Designed and built reusable, accessible, and responsive UI components including Breadcrumbs, Buttons, Cards, Forms, Input Fields, Sidebar, and more.
- Enhanced UI/UX quality and maintainability by enforcing component-based architecture and design best practices.

### DeepTerrain AI Pvt Ltd, Bangalore

#### Full-Stack Developer Intern

May 2025 – Present

Tech: Vite, ReactJS, MaterialUI, TailwindCSS, Figma, Cypress, Github

- Architected and delivered a real-time military mission control dashboard using React.js, Node.js, Leaflet.js, and Preact Signals for state management, enabling interactive GIS mapping and mission planning features.
- Engineered a C++ and OpenGL-based real-time visualization application for ADAS project, processing and rendering live sensor data on embedded hardware with smooth 120 FPS performance.
- Developed secure encrypted chat messaging system integrated into the mission control application using JWT authentication, enabling confidential communication among multiple users in defense scenarios.
- Achieved real-time synchronization of ADAS core platform logic with visualization layer via C++ UDP socket programming, delivering responsive vehicle dynamics rendering with minimal latency.

## PROJECTS

### WhatsApp Chatbot

[Github](#)

Tech: Figma, Canva, NodeJS, ExpressJS, Postgres, AWS Beanstalk, AWS S3 Bucket, Twilio, Dialogflow, CORS, JWT

- Boosted Content Management: Improved accessibility and management efficiency through a unified system
- Simplified Note Uploading: Cut educator upload times by streamlining content processes

- AI-Driven Chatbot Development: Increased student engagement with an intelligent chatbot for easy resource access.
- Improved NLP Interactions: Raised query response accuracy with Dialogflow NLP, boosting user satisfaction.
- Robust Cloud Integration: Secured 99% uptime and tripled storage capacity with AWS S3 and neon DB, ensuring scalability.

### **Google Meets Clone**

**Tech:** *Next.js, Next-Auth, WebRTC, recoil, Typescript, Google Firebase, chakra-ui*

- Developed a fully functional video conferencing platform inspired by Google Meets, leveraging Next.js and WebRTC for real-time communication.
- Engineered dynamic routing based on unique meeting IDs generated via WebRTC, ensuring seamless user access to video sessions.
- Integrated Next-Auth for secure user authentication and session management, enhancing platform security.
- Utilized Recoil for efficient state management, reducing re-renders and improving application performance by 25%.
- Designed a responsive, accessible UI with Chakra-UI, ensuring cross-device compatibility and a 15% increase in user engagement.
- Integrated Google's Firebase to store various call sessions and their metadata generated by WebRTC

### **Chatty - A Web Chat Application**

**Tech:** *Express.js, MongoDB, Mongoose, Socket.io, Razorpay, JWT, Passport.js, React.js, DaisyUI, Cookies, Cloudinary*

- Architected a responsive frontend using React.js and DaisyUI, implementing custom chat themes that allows user's to customise their own chat interface.
- Built a robust backend with Express.js and MongoDB, optimizing data handling with Mongoose for 20% faster query performance.
- Integrated Socket.io for real-time bidirectional communication, enabling seamless chat features.
- Implemented a multimedia chat functionality which would allow users to share images to each other using Cloudinary.
- Implemented secure payment processing with Razorpay and authentication with JWT and Passport.js, ensuring data privacy and user trust.

### **Solar System Three.js Application**

**Tech:** *Javascript, Three.js*

- Created an interactive 3D solar system visualization with dynamic planetary motion and user controls.
- Developed a 3D scene using Three.js, integrating high-resolution textures for celestial bodies (Sun, Mercury, Venus, Earth, Mars, Moon) to create a realistic simulation.
- Implemented OrbitControls for intuitive camera navigation, allowing users to explore the solar system with zoom and pan functionalities.
- Designed dynamic orbital mechanics for planets and moons, using mathematical calculations (sine and cosine) to simulate realistic movement patterns.
- Optimized rendering with WebGLRenderer and antialiasing, achieving smooth performance across devices with a 2x pixel ratio cap.
- Integrated Tweakpane for real-time parameter adjustments, enhancing user interactivity and engagement by 20%.