

# Mohammad Ammar Uddin

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## PROFILE

Full-Stack Developer with 1+ years of experience building secure and scalable web applications using Node.js, React, Next.js, and MongoDB. Proficient in designing RESTful APIs, implementing JWT/OAuth authentication, RBAC authorization, and deploying production-ready applications with Docker.

## SKILLS

- **Languages:** C/C++, Python, JavaScript, TypeScript, SQL
- **Tools & Technologies:** React, Next.js, Express.js, Node.js, Prisma, GraphQL, NoSQL (Mongoose), TanStack Query, Tailwind CSS, Git, GitHub, AWS, Docker, Linux, CI/CD Pipelines, Firebase Authentication, JWT, OAuth2, Nodemailer, Stripe, SendGrid, MongoDB, MySQL, Redis, Vercel

## PROFESSIONAL EXPERIENCE

### Junior Software Engineer (Remote), ScaleBridger

04/2025 – Present | Austin, TX 78731, USA

- OTA Automation Platform ([Trps.com](#))
- Built a production-grade OTA automation system integrating Airbnb, Booking.com, Guesty, and Avantio APIs, enabling real-time synchronization of reservations, availability, and pricing across channels.
- Developed scalable backend services using Express.js, MongoDB, TypeORM, and Redis, improving background processing reliability and ensuring accurate multi-channel synchronization.
- Implemented secure authentication with Google OAuth, JWT, and RBAC, and developed real-time, SSR-optimized dashboards using Next.js, WebSockets, and Firebase Cloud Messaging.
- Integrated Stripe and CCAvenue for multi-gateway payments and built automated SMS/email workflows using Twilio and SendGrid, reducing manual communication and enhancing customer engagement.

### Junior Software Engineering Trainee (Onsite), Digital Lab

01/2025 – 03/2025 | Chittagong, Bangladesh

- Developed scalable web applications using Next.js, Prisma, and Redis, optimizing data fetching and caching efficiency.
- Engineered an asynchronous SMS Scheduler with database-level locking, reducing message duplication and delivery conflicts by 90%.
- Enhanced expertise in RDBMS by implementing robust transaction management, concurrency control, and ensuring data integrity in full-stack systems.

## PROJECTS

### OTA Automation Platform ([trps.com](#))

- Built a full-stack OTA system with JWT-based role authentication, real-time dashboards, and deep integrations with Airbnb, Booking.com, Guesty, and Avantio for live reservation and pricing sync.
- Implemented Nest.js microservices, Redis caching/queues, and distributed locks, with integrated Stripe/CCAVenue payments and automated messaging via Twilio & SendGrid.

### Safara-LMS ([safaralearningcenter.com](#)), Freelance Project (Client-based Development)

- Developed a full-stack Learning Management System with secure **SSLCommerz** payment integration.
- Built a complete learning platform where students can enroll in courses, track progress, and earn certificates after course completion.
- Implemented **JWT-based authentication**, advanced security layers, and **DDoS protection**.

### Employee Management System

- Built full-stack system with JWT-based role authentication and secure, role-specific dashboards.
- Enabled Admins to manage employees, projects, leave, and salaries; Employees can update profiles and submit leave requests.
- Demo Admin login available in GitHub repository.

Live Link [🔗](#) | Client Code [🔗](#) | Server Code [🔗](#)

## EDUCATION

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**Bachelor of Computer Science and Engineering,**  
*International Islamic University Chittagong*

2020 – 2025 | Chittagong, Bangladesh

## CERTIFICATES

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### Ethical Hacking ☐

- Completed professional training in penetration testing, Metasploit, active/passive attacks, and core cybersecurity techniques, focusing on identifying and mitigating system vulnerabilities.

### Research Publication ☐

- Co-author of “*XAI-TransNet: Blood Cell Identification Using Deep Transfer Learning and Explainable AI Techniques*”