Md. Touhidul Islam

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SKILLS

Languages: C++, C, Java, PHP, JavaScript, SQL, Python
Technologies & Tools: Node, Next.js, React, Tailwind, Daisy UI, Git, Expo Go, Firebase, Vercel.

Work Experience

- Architected scalable backend systems for SaaS products using serverless and microservices on AWS.
- Developed 500+ RESTful APIs, reducing deployment time by 50% with automation tools and CI/CD pipelines.
- Built secure authentication systems in Golang, reducing incidents by 30%.
- Created SaaS applications with OpenAPI, improving automation and interoperability by 20%.
- Utilized AWS, TypeScript, Node.js, Stable Diffusion, Stripe, PayPal, OpenAPI, and Golang.
- Built a B2C Android/iOS app with AI image generation and responsive design, improving UX by 20%.
- Leveraged Flutter, Firebase, REST APIs, Riverpod, Isar, GoRouter and more.

Project Work

- **Academic Services and voting System (2025):** Developed a highly scalable and reliable section selection portal for United International University, supporting up to 100K+ concurrent users. Designed and built the entire system, including backend and frontend, leveraging modern cloud technologies (AWS). The system integrates with the existing monolithic architecture but operates independently without coupling to the student portal. Built with Go and deployed on a robust cloud infrastructure, it ensures high availability, fault tolerance, and optimal performance.
- **OpenChat (2024):** Developed a horizontally scalable, self-hosted real-time chat application using Golang, WebSocket, and Redis for scalability. Enables private and public chat rooms with anti-spam measures and operates independently of the public internet. Built to ensure reliable communication during crises, with a focus on scalability and security.
- **UIU Discord Bot (2024):** A bot to provide United International University information, including academic calendars and exam times. Features commands for various university details, built with Golang, DiscordGo, GORM, PostgreSQL, and Colly for web scraping. Containerized with Docker for efficient deployment.

Education:

B.Sc. in Computer Science & Engineering (CSE)	Oct 2022 - Present
United International University, Dhaka	
H. S. C.	Oct 2019 - Feb 2022
Narsingdi Science College, Dhaka	