

TOUHID RAHMAN

FULLSTACK DEVELOPER

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SUMMARY

Fullstack Developer with over **8 years** of experience delivering scalable, high-performance SaaS and enterprise web applications using **TypeScript, Node.js, and Angular**. Expert in REST API development, real-time communication through websocket, frontend architecture, state management, and performance optimization. Proven leader mentoring teams and driving clean-code standards. Creator of **open-source** libraries and technical author with 100k+ views. Passionate about modern technologies, developer experience, and AI-assisted development.

SKILLS

- **Programming:** Typescript, JavaScript, Python, OOP, Data Structure & Algorithms, SOLID, System Design
- **Backend:** Node.js, HonoJS, Express, NestJS, WebSocket, GraphQL, Swagger, JWT, Webhook, S3, Encryption, Zod, Scheduling Service, BullMQ, Cron
- **Frontend:** Angular v5-v21, Vue.JS, Ionic, RxJS, Signals, NGRX, Pinia, AG-Grid, Chart.js, Tailwind
- **Database:** SQL, NoSQL, PostgreSQL, MongoDB, Drizzle ORM, Prisma ORM, Redis
- **Cloud:** VPS, CI/CD, GitHub Actions, Kubernetes, Linux, Docker, Azure/AWS, Self-hosting, Coolify
- **AI:** AI-assisted Development, OpenAI SDK, n8n
- **Testing:** Vitest, Playwright, Unit Testing, E2E Testing
- **Tools:** NX Monorepo, Git, Git Hooks, Prettier, Biome, ESLint, Capacitor, Jira, Figma
- **Other:** Redux pattern, Agile SCRUM, BFF pattern, SDLC

PROFESSIONAL EXPERIENCE

JSat Automation, Inc (Became: Bhrigu, LLC), Blue Bell, PA 02/2024 - Present

Senior Frontend Developer

- Architect and develop AI companion web application for pharmaceutical manufacturing engineers that reduces 40% effort when designing recipes compared to the traditional software.
- Designed complex Directed Acyclic Graph (DAG) visualization algorithms for a specific type of flow chart.
- Improved performance by advanced state management using Signals and custom redux store approach.
- Integrated real-time chat using WebSockets and GraphQL.
- Led frontend best practices, initiated documentation, and testing for error free production release.
- Environment: Angular v21, NX, PrimeNG, Angular Material, PrimeNG, Playwright, GraphQL, WebSocket.

Empyrean Solutions LLC, Woburn, MA 05/2023 - 08/2023

Contract Full-Stack Developer

- Designed and implemented an internal cloud operations & monitoring tool used by the Cloud Engineers.
- Built scalable UI, and integrated authentication & toolings from Azure services for efficient cloud management.
- Established CI/CD pipelines and Docker-based deployment.
- Enabled sales department to solve typical actions such as whitelisting IP, change password etc bypassing the cloud engineers saving 20% of their time.
- Environment: Angular v16, Node.js, Nest.js, Azure, MongoDB, Prisma, Tailwind.

Check24 GmbH, Cologne, Germany 05/2020 - 07/2022

Full-Stack Developer

- Developed complex, high-traffic UI features for Germany's largest consumer services comparison platform.
- Migrated legacy AngularJS v1 checkout system to Angular v13+, improving maintainability and performance.
- Built highly performant UI components without third-party CSS frameworks.
- Built marketing email templating & sending tool that sends millions of emails.
- Environment: Angular v14, Nest.js, NX, AG-Grid, Nodemailer, Karma, Jasmine, Unit Testing, Jenkins.

Mobile2b GmbH, Cologne, Germany

08/2019 - 03/2020

Full-Stack Developer

- Developed real-time chat microservice backend in NestJS and UI with Angular & WebSocket integration.
- Spearheaded Angular v5 to v8 migration and enforced strict coding standards.
- Implemented advanced data visualization dashboards using HighchartsJS.
- Environment: Angular v8, Bootstrap, Chart.js, Git, Nest.js, Socket.io.

Acomodeo UG, Frankfurt, Germany

08/2017 - 03/2019

Front-End Developer

- Reduced network load for 130,000+ property records using NgRx-based state management.
- Led migration from AngularJS (v1) to Angular v5 within 3 months.
- Environment: Angular v5, NGRX, SCSS, Angular Material, Swagger, Figma.

Novoair Ltd, Dhaka, Bangladesh

08/2015 - 10/2016

Web Developer

- Rebuilt the official website, and developed a CMS using PHP, Codeigniter. Introduced Career and Press Release website using WordPress. Integrated Airline Management Software.
- Environment: PHP, Codeigniter, HTML, Bootstrap, Wordpress.

SELECTED PROJECTS

- **Auth as a Service - RBAC to any application using REST APIs (2026)**
<https://auth-demo.touhidrahman.me> - HonoJS, DrizzleORM, Node.js, PostgreSQL, Angular, NX
Provides RBAC authentication to any application via REST API & Secret key.
- **Sheresta - Smart Case Management for Lawyers (2024)**
<https://sheresta.com> - HonoJS, Angular, PostgreSQL, Drizzle ORM, NX
Start-up SaaS app for Lawyers' smart case management, digital calendar & communication with clients.
- **ContentERP - AI driven Web Publishing Management for teams (2023)**
<https://app.contenterp.com> - ExpressJS, MongoDB, PrismaORM, Angular
A web application to manage content writer team, and contents with the help of AI.

Open Source

- [@touhidrahman/ngx-simple-store](#) - (2026) - Signals based state management solution for angular apps.
- [@touhidrahman/simple-store](#) - (2025) - RxJS-based state management library for any JS/TS app.
- [Eyecatching](#) - (2018) - Visualize webpage differences using Python, OpenCV & Puppeteer.

Notable Blogposts

- [Easy and Custom Angular-RxJS State Management Under 50 Lines of Code](#) (5k Views)
- [Using Different Layout Frames For Different Routes In Angular](#) (5.6k Views)
- [How to Structure Angular Apps in 2021](#) (40k Views)

EDUCATION

MS Information Technology	Southern New Hampshire University, NH	2023
MS Global Software Development	Hochschule Fulda University of Applied Sciences, Germany	2018
Diploma Computer Science	Bangladesh Institute of Management, Bangladesh	2014

ADDITIONAL INFO

- **Awards/Achievements:** Medium.com's most impactful author prize (2021), International Merit Scholarship - SNHU (2022), 2 times Deutschlandstipendium/German Fellowship (2016, 2017), Best International Student Award (2017).
- **English Proficiency:** Fluent / CEFR C1 / IELTS 7.5 out of 9 (Listen-8 Read-8 Write-7 Speak-7).
- **Career Breaks:** Relocation and Graduate studies in Germany (2016 - 2017), Family commitments (2019, Apr - Jul), Relocation and Graduate Studies in US (2022 - 2023), Job search, Freelance work, Skill upgrade (09/2023 - 01/2024)
- **Fun fact:** Was a helicopter pilot before becoming a Coder.