

Asif Hossain

Software Engineer & AI Expert

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Profile

Software engineer with a Master of Computer Science from the University of Wollongong, working across JavaScript, TypeScript, React.js/Next.js, Node.js, PostgreSQL and Python. Certified AWS Cloud Practitioner and experience in Azure. Uses Claude Code, Cursor and OpenAI daily, reviewing output rather than accepting it blindly, and builds AI automation with n8n. Currently deep-diving in LangChain and RAG. Full work rights in Australia on Subclass 485, no sponsorship needed.

Education

Master of Computer Science (Software Engineering) | *University of Wollongong* | Wollongong NSW | *Jul 2023 to Jul 2025*

Bachelor of Computer Science and Engineering | *American International University Bangladesh (AIUB)* | Dhaka, Bangladesh - *Jan 2018 to Jan 2022*

- Received Dean's List Honours for achieving a GPA of 3.86 out of 4.00

Professional Experience

Software Developer | *TourHill* | Remote, Barcelona, Spain | *Apr 2026 to Present*

Working on a Full-stack tour and travel booking platform. URL: www.tourhill.com

- Used Claude Code and Cursor to speed up boilerplate, API scaffolding and test case generation, reviewing and rewriting every suggestion before committing
- Built a fully manageable admin panel with a dynamic Next.js frontend, using server and client-side rendering, reusable UI components, photo compression and a live calendar with dynamic slot availability
- Built a RAG-based travel concierge chatbot, embedding product, ticket and FAQ data into pgvector on Postgres and retrieving with LangChain to generate customer-facing answers through Claude
- Built a review intelligence system that generates AI summaries of pros, cons and sentiment on product pages, alongside a job that flags fake or anomalous reviews
- Designed a secure booking flow with live review display, preventing double booking on the same slot through real-time availability checks
- Built reusable Next.js components across the customer-facing site, admin panel and calendar system, shared between server and client-rendered pages
- Designed the full PostgreSQL schema and backend architecture, building a RESTful API with full CRUD coverage across booking, product and availability modules
- Integrated Stripe payments and webhooks with dynamic cancellation policy logic, plus live and email notifications for booking status changes
- Prevented duplicate bookings under concurrent requests by implementing atomic slot reservation with Redis Lua scripts, closing a race condition that standard read then write logic would miss
- Deployed the platform on Railway across multiple services with background jobs, rate limiting and proxy routing, and enforced fail-fast configuration by validating all environment variables with Zod at startup

Software Engineer (Contract) | *Mendoza Brothers Holdings LLC* | Florida, USA (Remote) - Dec 2022 to Jun 2024

- Designed the full Frontend, Backend architecture and database schema from scratch, covering order tracking, staff management and supplier workflows, while solely owning requirement analysis and client communication throughout the project
- Built a library of reusable React and Material UI components, cutting new feature build time across the admin dashboard and client-facing screens
- Automated bulk dataset upload and download with Excel integration, reducing administrative workload by 60 percent
- Built a real-time notification and chat system using Node.js and Socket.io, reducing issue resolution time by 35 percent
- Integrated Stripe and other third-party APIs, enabling subscription billing and order payments across the platform
- Implemented JWT authentication, multi-factor authentication, role-based access control and automated email notifications, strengthening account security
- Maintained CI/CD pipelines and Git workflow throughout the project, deploying first to Heroku and later migrating to the client's own VPS
- Improved usability and accessibility across the platform through redesigned layouts and consistent interaction patterns

Software Engineer | *Fiverr* | Remote - Feb 2021 to Sep 2023

- Completed 50 plus client projects with 100 percent satisfaction and consistent 5-star reviews
- Built 10 plus full stack web applications covering React.js, Next.js, Node.js, Express, MongoDB, and PostgreSQL
- Integrated RESTful APIs, Firebase authentication, and secure payment gateways including Stripe and PayPal
- Implemented CI/CD pipelines using GitHub Actions, Netlify, Heroku, and Railway for fast and stable deployments

Customer Solution Specialist | **Probe CX** | Wollongong, Australia - Dec 2025 to Mar 2026

- Handled 25 plus inbound calls per day, achieving 85 to 90 percent first contact resolution within the SLA and maintaining a 95 percent quality compliance score in a high-volume, KPI driven environment

University Projects

ASSERT Prediction Platform | Solidity, Node.js, Web3.js, React.js, Claude Code, MongoDB, Firebase - 2025

- Led a 4-person distributed team, planning the system architecture and leading weekly scrum meetings to track progress and distribute tasks
- Designed reusable frontend UI components with backend API validation using Zod, and set up custom Claude Skills and a Claude Agent to support the development workflow
- Built an AI and machine learning based moderation system that automatically detected and rejected abusive or spam comments and posts
- Co-developed Solidity smart contracts for real-time token transactions and engineered a daily reward token mechanism
- Built a secure Node.js backend with Web3.js, integrating open-source oracles to pull live news and results for validating predictions and distributing tokens

Technical Skills

Programming Languages: JavaScript, TypeScript, Python, SQL

AI: Claude Code, Claude Agent, Claude Skills, GitHub Copilot, Cursor, Codex, LangChain, RAG, pgvector, n8n Automation, Prompt engineering, token optimisations

Frontend: React.js, Next.js, Tailwind CSS, HTML, Responsive Design, Figma, Claude Design

Backend: Node.js, NestJS, Express.js, REST API, GraphQL, Microservices Architecture

Databases: PostgreSQL, MongoDB, MySQL, Redis, Firebase, Drizzle ORM, Vector Database

Cloud & DevOps: AWS, EC2, Lambda, S3 Bucket, DynamoDB, Docker, GitHub Actions, CI/CD

Security & Auth: JWT, OAuth 2.0, CSRF defence, Salted Hashing, Brute-Force Mitigation, Role-Based Access Control, SQL Injection prevention

Testing & QA: Jest, Postman, Unit and Integration Testing, Performance Tuning

Methodologies: Agile/Scrum, SDLC, Linux/Ubuntu, Jira

Achievements and Awards

Dean's List Honours

GPA of 3.86 out of 4.00 at American International University Bangladesh (AIUB).

SJ Innovation Hackathon | *1st Runner-Up*

Led a team of 4 to place 2nd among 16 teams, building an education sector application within the competition timeframe.

Certifications

- Certified AWS Cloud Practitioner
- n8n Masterclass: Build AI Automations and Scalable Workflows (Udemy)
- Programming Hero, Full-stack development covering HTML, CSS, JavaScript, React.js, Node.js, Express.js, MongoDB, Firebase, JWT, and deployment

Additional Information

- Subclass 491 invitation received, demonstrating long-term regional commitment to NSW
- Holds Temporary Graduate Visa Subclass 485 with full work rights in Australia
- Current Australian Driver's Licence
- Able to obtain a National Police Check and Working with Children Check if required
- Available for flexible and hybrid work arrangements

Reference available upon request