Badhon Nath Joy

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EDUCATION

•**Bachelor of Science in Computer Science and Engineering**   *2021-2025*
American International University-Bangladesh   CGPA: 3.93/4

PROJECTS

•**CognitGem**   *Live*
Sept 2024

– Built a generative AI chatbot for creating dynamic and engaging text outputs.
– Secured user authentication and session management using NextAuth.
– Developed a responsive UI with Tailwind CSS and Shadcn UI.
– Integrated Next.js and Express.js for seamless frontend-backend communication.
– Designed and consumed REST APIs for real-time interactions.
– Utilized MongoDB and Mongoose for efficient data handling and querying.
– *Technologies Used*: Next.js, Express.js, NextAuth, JavaScript, REST API, MongoDB, Tailwind CSS, Shadcn UI.

•**JobNest**   *Source*
Mar 2024 - Apr 2024

– Developed a web platform connecting task sellers and freelance buyers for task posting, proposal submission, and payment processing using Stripe.
– Implemented JWT authentication and multi-tenant architecture for enhanced user experience.
– Integrated real-time chat and admin controls for user and job management.
– Created Postman collections and Swagger documentation for API testing and documentation.
– Utilized Docker for consistent development and deployment.
– Designed a UI with Tailwind CSS.
– *Technologies Used*: Nest.js, Next.js, PostgreSQL, TypeORM, REST API, Postman, Swagger, Docker, TypeScript, Tailwind CSS.

•**Green Dhaka: Urban Sustainability and Employment Solution (Test Plan)**   *Source*
Apr 2024 - May 2024

– Developed a software platform aimed at addressing the scarcity of green spaces and unemployment in Dhaka.
– Designed features for rooftop garden registration, gardening equipment purchase, and gardener hiring.
– Created modules to calculate tax and utility subsidies for rooftop gardens and solar panel installations.
– Built an interactive feed system allowing users to share updates and access gardening tips and tutorials.
– Conducted comprehensive testing, including unit, integration, and system testing using Selenium IDE.
– Promoted community engagement with donation features and expert consultations for rooftop garden planning.

TECHNICAL SKILLS

Programming Languages: TypeScript, JavaScript, Python, C++, C#
Frontend Development: React, Redux, Next.js, HTML, CSS, Tailwind CSS
Backend Development: Node.js, Express.js, Nest.js, REST APIs
Database Management: MongoDB, PostgreSQL, Mongoose, TypeORM
Tools and Platforms: Git, GitHub, Firebase, Vercel, Postman

HONORS & AWARDS

•**Dean's List Honors**   *Fall 2023 & Spring 2023*
American International University-Bangladesh

– Recognized for outstanding academic performance and excellence by being named to the Dean's List.