

Tahmidur Rabb

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EDUCATION

New York University, Tandon School of Engineering

CyberSecurity, M.S. GPA: 3.5

Computer Engineering, B.S.

Coursework: Computer Networking, Network Security, Cloud Security, Mobile Security, Application Security

New York, NY

Expected Graduation: Dec 2026

May 2023

EXPERIENCE

Adstra

March 2025- Present

Software Engineer - Applications

New York, NY

- Architected an automated document processing platform that maps JSON, TXT, XML data into Word templates via a self-built parsing algorithm, scaling to 15,000+ documents monthly across 15+ business-critical document types
- Extended the document processing algorithm with custom classes and data structures—using hash maps for data grouping, tree structures for XML parsing, and queue-based batching via a custom email batching class—to coordinate downstream processes and maintain continuous workflow execution.
- Developed a custom ORM using Python and MySQL, implementing SQL-based data models and mapper functions to manage relational persistence; enabled dynamic ingestion, batching, and appending of financial data documents
- Designed and implemented a React-based UI dashboard backed by Node REST APIs to orchestrate document workflows, trigger asynchronous jobs, and surface operational metrics; integrated role-based access, API versioning, and optimized SQL queries, supporting scalable backend services aligned with microservice architecture.

ApartmentMaid

September 2023- March 2025

Founding Software Engineer - FullStack

Brooklyn, NY

- Built a scalable client-facing SaaS booking application for an early seed Apartment Service Startup using NextJS, TypeScript, and PostgreSQL, while working with another developer under a CI/CD pipeline, achieving 100+ bookings and over 10,000 dollars in revenue within the first 6 months.
- Engineered a high-performance backend using NextJS API libraries, server-side rendering, and RESTful APIs. Utilized Supabase as a serverless BaaS to refactor backend operations, optimize CRUD requests, and augment session storage/handling.
- Created robust data solutions using Prisma ORM and PostgreSQL to design and manage diverse models. Further optimized data management using Supabase, resulting in a more secure authentication system, role-based access control with RLS policies, and enhanced ETL performance, increasing the speed of the platform by 12%
- Integrated third-party services such as Stripe for secure, PCI-compliant transactions and seamless connections with business owners, Nodemailer for SMTP services and automating emails, and NextUI and Framer Motion for a component-based architecture and adaptive design, showcasing the platform's versatility and enhanced capabilities.
- Expanded the customer base by 25% by designing two data visualization portals for different user groups, automated email campaigns for 150+ users using self-built email templates, and maintained site reliability by monitoring deployments through Vercel, driving a 15% increase in sales.

SWE PROJECTS

Full Stack Developer | [CollegeGenie](#) | MongoDB | NextJS | OpenAI | Clerk | Pinecone | Stripe

September 2024 - Present

- Designed a scalable CRUD application enabling account creation/session handling, AI-driven college guidance, and user connections, with 150+ users within the first week
- Incorporated Bootstrap and TailwindCSS to develop functional UI components, Axios to create and handle REST APIs, MongoDB to store/retrieve data schemas, and 3rd party services for authentication and payment transactions.
- Integrated College Scorecard API and Pinecone embeddings to analyze 500+ colleges and match them to user data, leveraging OpenAI GPT-4 and RAG embeddings to boost response accuracy in a pre-built LLM by 25%.

Cloud Developer | *AWS IAM Credential Compromise Simulation* | IAM | GuardDuty | CloudTrail |

December 2025

- Designed and executed an AWS cloud security simulation to model unauthorized IAM credential usage and privilege escalation scenarios, including federated access via AWS IAM Identity Center and SAML providers.
- Implemented real-time detection and automated response workflows using native AWS security services to identify compromised access keys, anomalous federation switches, and credential misuse.

SKILLS

Programming Languages: Python3, TypeScript, JavaScript, Java, C++, C, SQL

Full Stack Development: NextJS, ReactJS, VueJS, HTML5/CSS3, Node.js, Express.js, Django, Flask, Spring Boot

Database & Management: PostgreSQL, MySQL, Supabase, MongoDB, Prisma, Firebase, Snowflake, Hadoop

DevOps & Cloud: AWS(Lambda, Nex, EC2, S3, ElasticSearch, RDS), Docker, Kubernetes, GCP, RESTful APIs

Tools & Technologies: Git, Splunk, Shell Scripting, RESTful APIs, GraphQL, Microservices, CI/CD Pipelines, Jira, Agile Methodology, OpenAI/Claude, Postman, VSCode, Selenium, Snowflake, Linux, third-party API integration