

Md Tonoy Akanda

Full Stack Software Engineer

<https://www.linkedin.com/in/tonoy-akanda>

Email : tonoy.aka@gmail.com

Mobile : +880-1998088296

EXPERIENCE

- **Orbitax Bangladesh Ltd.** Dhaka, Bangladesh
Software Engineer Jul 2022 - Present
 - Mentored a team of three new recruits to help them to grasp the codebase
 - Architected a data pipeline for converting and transferring data with third parties, which now has over 20K monthly conversations with dozens of analysts and partners
 - Built file extractor and downloader for extracting and downloading custom files that drove a 9% growth in revenue
 - Developed and managed a module that responds to user "what if" questions, which resulted in 17% more customer engagement
 - Designed and implemented a modular, extendable, easily maintainable architecture of the overall frontend, leading to an approx. 38% reduction in development and testing time
 - Skills: Azure Data Bricks, Azure Data Factory, Python, Redis, GRPC
- **Orbitax Bangladesh Ltd.** Dhaka, Bangladesh
Associate Software Engineer Jul 2020 - Jun 2022
 - Researched and implemented a graph-based execution engine for complex calculation, reporting, and workflows, which is under US government patent (pending) and able to save upto 63% of client time
 - Coded and documented a search engine for platform contents, which led to a 34% increase in user engagement
 - Systematized and programmed a secure and distributed document storage service, which resulted in an increase in availability and scalability of 45% and 75%, respectively, from the previous one
 - Troubleshooted user role and permission in various services resulting in a 13% increase in security
 - Rebuilt data integration pipeline and reduced data conversion time from 9 to 2 seconds
 - Published a generic library for large data visualization and conditional formatting, which can process 8K statistical operations per second
 - Skills: .Net WebApi, Angular, RxJs, Docker, Go, MongoDB, AWS S3, RabbitMQ, MassTransit, CircleCI
- **Orbitax Bangladesh Ltd.** Dhaka, Bangladesh
Junior Software Engineer Jan 2020 - Jun 2020
 - Developed real-time offline first cross-platform mobile application and backend services which got 10K users within a month
 - Used Docusaurus to rewrite the complete program documentation; it cuts the writing time from a Microsoft Word based solution by 30%
 - Skills: Node.js, GraphQL, React, React Native, Redux, WebSocket, Unit Testing, Git
- **IICT Developer Lab** Sylhet, Bangladesh
Web Engineer Jun 2019 - Dec 2019
 - Designed, built and deployed a user facing web application and admin panel for the Institute of Information and Communication Technology, SUST which is able to handle 27K traffic per second
 - Skills: Django, Django REST framework, React, Redux, Nginx, Unicorn, PostgreSQL, Linux Server

PROJECTS

- **The Mortar Programming Language:** Pet project for learning interpreter & compiler design for computer programming language
- **Happy Treat:** REST API for excess food management for hotel, restaurants and other catering organization
- **.Net Identity:** JWT token based authentication and authorization service using .net identity framework
- **Performance Calculator:** A performance management system of students built with .net webapi, angular, postgresql, entity framework, and .net identity
- **Pro Fashion:** Microservices based e-commerce application for selling custom made outfits using .net webapi, rabbitmq, docker, kubernetes
- **Sail Maker:** A order tracking system for e-commerce application used in Pro Fashion project

PROGRAMMING SKILLS

- **Languages:** C#, Go, Python, Typescript
- **Technologies:** .Net, Django, Node.js, React, Angular, RabbitMQ, GRPC
- **Databases:** MongoDB, PostgreSQL, Redis
- **Clouds:** Docker, AWS S3, AWS EC2, Azure Data Factory, Azure Data Bricks, Heroku
- **Others:** Microservices, TDD, SOLID, Continuous Integration (CI)

LANGUAGES

- **English**
Full Professional Proficiency

EDUCATION

- **Shahjalal University of Science and Technology**
Bachelor of Science in Software Engineering
Sylhet, Bangladesh
Jan 2017 – Dec. 2021