

NIXON ISLAM

Amsterdam, Netherlands
nixon613@gmail.com
github.com/nixon1333
linkedin.com/in/nixon1333
Nixon1333.com

WORK EXPERIENCE:

ProtoLabs Network, Netherlands

August 2021 - Present

*A subsidy of **ProtoLabs***

Tech Stack: Python, PostgreSQL, RabbitMQ, Redis, Kubernetes, Knative, Kafka, Flask, FastAPI, Celery

Staff Engineer to Core Teams

March 2023 - Present

- Designed 3-year future architecture for the Amsterdam engineering organization.
- Proposed and successfully secured approval for 20+ technical initiatives from stakeholders.
- Created and implemented Amsterdam-side SLAs and SLOs for each tech team.
- Established 2024 engineering OKRs and roadmap for engineering teams.
- Reduced high-traffic incidents by 90% by improving database architecture design.
- Created a custom Dead Letter Queue library to resolve RabbitMQ message loss issues.
- Run research about compliance with ITAR regulations, ensuring secure data isolation.
- Defined tech and business domains to stabilize domain ownership.
- Planned and designed 5 microservices for different product teams.
- Influenced the implementation of Knative and Kafka-based infrastructure systems.
- Provided leadership to tech leads and staff engineers.

Sr. Software Engineer

August 2021 - February 2022

- Built and led an integration tech team of 6 members from scratch.
- Designed and managed the successful launch of enterprise-level B2B integration tools across three software divisions in different time zones, meeting the deadline.
- Enhanced database performance by 60% through targeted optimizations.
- Reduced tech team onboarding time by 50% through process improvements.

Pathao, Bangladesh

April 2018 - July, 2021

Tech Stack: Python, Golang, Docker, PostgreSQL, MongoDB, RabbitMQ, Redis, Kubernetes, Django, Celery, Elasticsearch

Senior Software Engineer II

January 2020 - July, 2021

- Lead a 6 member team dedicated to Pathao Food development
- Expanded Pathao Food into Nepal, extending service beyond Bangladesh.
- Organized hackathon to launch online medicine and grocery stores, amidst COVID-19.
- Created an algorithm to increase the food delivery completion rate up to 43%.
- Refactored existing codebase to optimize resource usage, lowering resource cost by 60%, and improving order processing performance by 10x.
- Rebuilt old monolith into an event-based microservice architecture.

Senior Software Engineer

April 2018 - December 2019

- Led a 3 member squad in Pathao-Food dedicated to adding new features
- Developed 6 microservices for coupons, referrals, payment integration, and reviews.

- Designed an Order Management Service to be used by both product and marketing.
- Implemented admin portal for restaurants to monitor incoming orders
- Developed automated bill generation tool for restaurants
- Initiated transition from Django-based monolith to microservices architecture

ST Solutions, Bangladesh

February 2013 – January 2018

Tech Stack: PHP, Node js, Python, Swift 2, Docker, MySQL, MongoDB, MEMSQL, jQuery, SymmetricDS, Neo4j, Symfony, Django

Chief Technology Officer

November 2014 – January 2018

- Built and led a 10-member service-oriented software team for client-specific projects.
- Delivered the second version of madefreshly.com, a SaaS-based e-commerce product.
- Developed data pipelines for syncing data between multiple data centers.
- Designed architecture for a Korean-based auction site like eBay
- Released an iOS App, one of the popular news channels in Bangladesh

Senior Software Engineer

January 2014 – October 2014

- Rebuild a WordPress-based news CMS [Bangla Tribune](http://BanglaTribune.com), increasing traffic by 83%.
- Wrote the API version for madefreshly.com using nodejs, and mongodb.
- Built an intuitive job search module for joonomy.com using a graph database.

Software Engineer

February 2013 – December 2013

- Initiated development on joonomy.com, a job site like Upwork, reporting to the client.
- Started working as a manual QA for madefreshly.com a SaaS e-commerce product.

CONSULTANCIES:

GoZayaan, Dhaka (Remote)

October 2022 – Present

Tech Stack: Python, PostgreSQL, Django, FastAPI, GoLang, GCP, Kubernetes

- Implemented priority queue-based solution in monolith to reduce 80% downtime.
- Developed a 5-year technical roadmap for the company.
- Implemented Kubernetes infrastructure.
- Scaled the monolithic system horizontally to have zero downtime and faster processing.
- Planned & migrated a 2+TB database from DigitalOcean to GCP with no downtime.
- Migrating infrastructure from DigitalOcean to Google Cloud Platform (GCP).

GameOf11, Dhaka (Remote)

August 2020 – April 2022

Tech Stack: PHP, Laravel, MySQL, Redis, Apache Jmeter, Python

- Reduced resource cost by 50%
- Scaled up horizontally the current Monolithic System
- Prepared an automated load testing script to find the system's load capability
- Created archival data pipeline, reducing API response time by 8-20x.

EDUCATION:

BSc. in Computer Science and Engineering

2014

Ahsanullah University of Science and Technology, Dhaka, Bangladesh