Muhammad Ershadul Hoque Sarker

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Email | LinkedIn | Github

SKILLS

- *Programming Language & Frameworks:* Python, JavaScript, TypeScript, C/C++, Java, Node.js, Django, Django-Oscar. React, Vue, Flask, Django-Wagtail
- *Databases & Storages*: MySQL, PostgreSQL, MongoDB, Elasticsearch, S3
- *System Design*: REST API, Event-driven system, CMS Apps, eCommerce Apps, Distributed Systems
- *Message Broker & Async Task processing*: RabbitMQ, Redis, Celery, AWS SQS
- *Architecture & Microservices*: Client/Server 3-tier application, Microservices, Event-driven systems, Serverless
- *Orchestration System*: Docker, Kubernetes, AWS ECS, AWS EKS, AWS ECR
- *Amazon Web Services*: CloudFront, EC2, RDS, API Gateway, Lambda, CloudWatch, CloudFormation, OpenSearch, Kibana, SQS, SNS etc.
- *Management*: Tech Project Management & Planning, Agile & Scrum, CSPO, CSM
- *Others*: Git, Ubuntu, CI/CD using Github actions and Bitbucket pipelines

EXPERIENCE

Senior Backend Engineer

Air Labs, Inc.   Remote from Dhaka, Bangladesh | JUN 2022 - OCT 2023

Tech Stack: TypeScript, Node.js, React, Knex, Next.js, Monorepo, AWS (CloudFront, API Gateway, Open Search, Lambda, Batch, Beanstalk, S3, CloudWatch, Kibana, ECR, ECS, SNS, SQS, Route 53), Docker, Git/Github, Github Actions, Jest, PostgreSQL, Redis

- Designed, architected and developed public REST API and event-driven systems
- Improved CI/CD throw adding multiple DEV and QA environments
- Worked together with co-founders and product manager to manage work pipelines and sprints' work

Assistant Vice President

ASTRO, Role: Lead Software Engineer   Kuala Lumpur, Malaysia | DEC 2019 - NOV 2021

Tech Stack: Node.js, TypeScript, Express.js, AWS (CloudFront, API Gateway, Open Search, Lambda, EKS,, S3, CloudWatch, Kibana, ECR, ECS, SNS, SQS, Route 53, RDS), Docker, Git/Bitbucket, BB Pipelines, Jest, MySQL, Redis, Webhooks, jMeter, Python

- Led the design, development and maintenance of the backend APIs and webhooks for premier digital publishing platforms including AstroAwani, AstroUlagam, StadiumAstro which managed over 9 Million daily requests
- Reduced to average API response time to below 100ms by programmatic cache invalidation
- Reduced 10%+ cost of the AWS resources by implementing strategic approaches
- Led and mentored a dynamic engineering team of 3-5 professionals by making goals, roles and plan clear

Software Architect

IT-button.com (local vendor: Binate Solutions Limited)   Dhaka, Bangladesh | JUL 2017 - DEC 2018

Tech Stack: Python, Django, Django Rest Framework, Django-CMS, Wagtail, Node.js, TypeScript, Angular, React, Vue, Express.js, AWS (Open Search, EKS,, S3, CloudWatch, Kibana, RDS), Docker, Git/Github, Ansible, Jest, MySQL, MongoDB, Redis, Webhooks, Stripe

- Successfully delivered projects for several clients including enterprise-level collaborations with VidaXL.com, Qban.
- Designed and developed frontend apps using TypeScript, Vue.js, React.js and Angular

- Streamlined deployment and configuration processes across all client projects utilizing Ansible
- Provided guidance and mentorship to the engineering team on best practices in code quality, pull request reviews and Agile processes

Python/Django Architect (Freelance)

KuwaitNET   Remote from Dhaka, Bangladesh | JUL 2016 - NOV 2019

Tech Stack: Python, Django, Django Rest Framework, Django-CMS, Ubuntu, Git/Bitbucket, Ansible,, Jest, MySQL, PostgreSQL Payment Gateway.

- Delivered over 15 bilingual Django-CMS-based projects encompassing Govt. web applications and e-commerce platforms
- Developed backend and frontend for all the web-apps except UI/UX

Senior Software Engineer

Optimizely (*formerly NewsCred Inc*)   Dhaka, Bangladesh | MAR 2009 - JUN 2016

Tech Stack: Python, Django, Django Rest Framework, Node.js, JavaScript, jQuery, Angular, Express.js, AWS (CloudFront, API Gateway, Open Search, EKS,, S3, CloudWatch, Kibana, RDS), Docker, Git/Github, Ansible, Jest, MySQL, MongoDB, Redis, Webhooks, Paypal, Celery, RabbitMQ

- Launched NewsCred's first product i.e. NewsCred.com in 2010 to enable customers to create their own newspapers in less than 60 seconds like Ning, *Click here to read more*
- Pioneered the NewsCred SmartCMS, aiding in securing $4M in funding, *Click here to read more*
- Contributed in the full-text content aggregation system (a distributed data and image processing) which aggregated licensed articles, images and videos from around 2500+ sources like NYTimes, Washington Post, GettyImages, Shutterstock etc.
- Coached the engineering team to adopt Agile processes being a CSPO and CSM

Software Engineer

Divine IT Limited   Dhaka, Bangladesh | NOV 2007 - MAR 2009

Tech Stack: Python, Django, MySQL, jQuery, SQLAlchemy, C#, .NET, MS Access etc.

- Developed and marketed the company's first product called myMoney, a personal finance manager
- Kicked of the development of an ERP using Python/Django which has later evolved as its flagship product called prismERP

EDUCATION

- *B.Sc. in Computer Science & Engineering*, University of Dhaka, Dhaka   2002 - 2007
  Relevant Coursework: Digital Systems, Discrete Mathematics, Object Oriented Programming, Data Structures, Formal Language & Automata Theory, Design & Analysis of Algorithms, Database Management System, Operating Systems & System Programming, Compiler Design, Data & Telecommunication, Parallel & Distributed Processing, Computer Network & Internet, Numerical Analysis, Microprocessor, Artificial Intelligence
  Result: First Class, Obtained 64.25% of marks

PERSONAL PROJECTS

- www.alkawsar.com, nari.alkawsar.com, shishu.alkawsar.com: launched the digital version of the famous Bengali monthly/quarterly islamic publication named ALKAWSAR. *Source code can be shared privately*.

CERTIFICATIONS

- Certified Scrum Product Owner, Colombo, 2019 by Pete Deemer
- Certified Scrum Product Owner, Bangalore, 2016 by Pete Deemer
- Certified Scrum Master, Bangalore, 2014 by Pete Deemer