

MD KAMOL HASAN

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WORK EXPERIENCE

Software Engineer

OPN Co. Ltd [15/10/2022 – Current]

City: Bangkok

Country: Thailand

Website: <https://www.opn.ooo/th-en/>

- Designed and developed features on the OPN payment gateway, enhancing its functionality and user experience.
- Engineered a dynamic webhook notification delivery system that automatically sends notifications upon the creation of payment events.
- Developed a comprehensive Payment Facilitator (Payfac) system, including a master merchant and sub-merchant hierarchy. Implemented data aggregation feature for any branch of the tree.
- Spearheaded the implementation of a Merchant Cash Advance (MCA) system, enabling one merchant to lend money to another with a structured payback system.
- Played a key role in merchant onboarding Know Your Customer (KYC) microservice. This service supports internal use cases and can be offered as a standalone service to other companies as a service (AAS).
- Collaborated closely with cross-functional teams, including product, business, DevOps, and security teams.
- Involved in the entire development cycle, from design and coding to code reviews, testing, deployment to production, and ongoing support.
- Mentored and guided junior software engineers, contributing to their professional growth.

Senior Software Engineer

AppsCode Inc. [01/01/2021 – 30/09/2022]

City: Dhaka

Country: Bangladesh

Website: <https://appscode.com/>

- Led the KubeDB Managed Elasticsearch Operator team, overseeing the development of a tool for running production-grade databases on Kubernetes.
- Designed and implemented Kubernetes operators for the top three Elasticsearch distributions: ElasticStack, OpenDistro of Elasticsearch, and OpenSource Elasticsearch with the SearchGuard plugin.
- Developed controllers for KubeDB enterprise features, including Automated version upgrades, Automatic/Automated horizontal and vertical scaling, TLS management (add/remove/rotate/update), Automated volume expansion, Smart restart, Reconfiguring, etc.
- Wrote comprehensive end-to-end (e2e) testing scenarios, covering various corner cases to ensure the robustness and reliability of the implemented solutions.
- Played a pivotal role in supporting clients with installation, debugging, and operational queries via calls, emails, and chats.
- Actively participated in the mentorship of junior software engineers and contributed to the recruitment process.

Software Engineer

AppsCode Inc. [03/12/2018 – 31/12/2020]

City: Dhaka

Country: Bangladesh

Website: <https://appscode.com/>

- Designed, wrote, and actively participated in codebase reviews for the Kubernetes operators.
- Contributed to the documentation of KubeDB, and KubeVault to ensure clarity and accessibility.
- Managed the release process of KubeVault.
- Managed the monitoring pipeline on the company's production cluster, overseeing tools such as Prometheus, Grafana, M3DB, etc.

DIGITAL SKILLS

Programming Languages

Go / Ruby On Rails / C++

Technical Tools

Kubernetes / Docker / Helm / Prometheus & Grafana / HashiCorp (Terraform, Vault) / DATADOG / ELK stack (Elasticsearch, Kibana, Logstash) / PostgreSQL / Git

EDUCATION AND TRAINING

Bachelor of Science

Chittagong University of Engineering and Technology [01/03/2014 – 30/11/2018]

City: Chittagong

Country: Bangladesh

Website: <https://www.cuet.ac.bd/>

Field(s) of study: Computer Science & Engineering

Final grade: 3.39/4.00

PROJECTS

OPN Payments

[15/10/2022 – Current]

[Opn Payments](#) is a financial technology platform that provides online payment solutions and digital transformation solutions for businesses, enterprises, and financial institutions.

Technologies Used: Ruby on Rails, Go, PostgreSQL, Kubernetes, Datadog, etc.

Link: <https://www.opn.ooo/th-en/>

KubeDB

[01/01/2020 – 30/09/2022]

[KubeDB](#) is the Kubernetes Native Database Management Solution that simplifies and automates routine database tasks such as Provisioning, Monitoring, Upgrading, Patching, Scaling, Volume Expansion, Backup, Recovery, Failure detection, and Repair for various popular databases on private and public clouds.

Technologies Used: Go, Kubernetes, Helm, Prometheus, Grafana, etc.

Link: <https://github.com/kubedb>

KubeVault

[01/03/2019 – 30/09/2022]

[KubeVault](#) is a collection of tools for running HashiCorp Vault on Kubernetes. It's a GitOps-ready solution for deploying and configuring HashiCorp's Vault on Kubernetes.

Technologies Used: Go, Kubernetes, Helm, Vault, Prometheus, Grafana, etc.

Link: <https://github.com/kubevault>

ADDITIONAL EXPERIENCE

Competitive Programming

[01/04/2018 – Current]

- Solved more than 1000 problems in different online judges: [[Codeforces](#)], [[CodeChef](#)], [[HackerRank](#)], [[UVA](#)]
- Participated at ACM ICPC Dhaka Regional Round, 2018.
- Participated at National Collegiate Programming Contest, Bangladesh: NCPC-2017, NCPC-2018.

StackOverflow Community

[03/12/2018 – Current]

- Achieved 12,500+ reputation points on StackOverflow.
 - Answered 250+ questions related to Kubernetes, Go, Helm, Prometheus, etc.
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