



Abu Sayed Polin

Junior Software Engineer II



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Professional Summary

Results-oriented **Software Engineer** with 2+ years of experience building and deploying scalable web applications using **Node.js**, **Express.js**, **React**, and **Next.js**. Skilled in **JavaScript**, **TypeScript**, and backend API development with a strong foundation in **data structures and algorithms**. Experienced in **cloud deployment** on **AWS EC2** and implementing **CI/CD pipelines** using **GitHub Actions**. Passionate about designing efficient, maintainable solutions and contributing to high-impact software development projects.

Professional Experience

Junior Software Engineer II

Brotecs Technologies Ltd

Dec 2024 – Present

- Integrated **TypeScript**, **Prisma ORM**, and **RESTful APIs** for robust backend development and cleaner type-safe workflows.
- Deployed and managed applications on **AWS EC2**, implemented **CI/CD pipelines** via **GitHub Actions**, and configured Cloudflare SSL for production environments.
- Integrated **Elasticsearch** for advanced **search** and storing **time series data**.

Junior Software Engineer I

Brotecs Technologies Ltd

Dec 2023 – Dec 2024

- Developed and maintained backend APIs, **optimized endpoints**, and improved data processing pipelines.
- Applied **reverse engineering** techniques to understand complex existing codebases, enhancing legacy modules and integrating new features seamlessly.
- Maintained several **PHP-based legacy systems** using CodeIgniter and Laravel.

Projects

- Vizor - Real-Time System Monitoring Platform** (React, Node.js, WebSocket)
 - Vizor is a serverless endpoint monitoring system. It collects real-time metrics (**CPU**, **memory**, **network**), provides service monitoring, network insights, **terminal access** via GUI, and a **file manager** for viewing, editing, and managing files. Supports **multi-tenant architecture**, allowing multiple clients or teams to monitor their own endpoints securely and independently.
- Automated Network Topology Map** (Node.js, SNMP, LLDP, D3.js)
 - Developed a system to automatically generate network topology maps by collecting data from **switches and routers**. Used **SNMP** and **LLDP** to retrieve data from endpoints, recursively processed the information, and visualized the network structure with an interactive **D3 tree graph**.
- Order Management API for E-Commerce** (Express.js, Prisma, PostgreSQL, JWT, GitHub Actions)
 - Built a robust **backend API** to manage orders, products, and customers for an e-commerce platform. Implemented authentication, **role-based access control**, and real-time stock updates.
- Employee Task Tracker** (React, Express.js, MySQL, Prisma)
 - Built a web application for managing employee tasks, including **role-based access**, task assignments, and automated notifications. Designed **recurring task schedules**; enabled document submissions and detailed work tracking.
- Aviation Router Control Management (GUI)**
 - Developed the web-based GUI with react for managing routers installed on aircraft. Enabled full control of routers **in-flight**, including **terminal access**, log viewing, and configuration, with **RBAC-based access control**.

Technical Skills

- Languages :** Python, C, C++, Java, PHP, JavaScript, TypeScript
- Frameworks & Tools :** React, Next.js, Node JS, Express JS, Flask, CodeIgniter, Laravel
- Databases :** MySQL, PostgreSQL, MariaDB, SQLite, MongoDB, Firebase, Prisma (ORM)
- Other Skills :** Git, Docker (basic), Apache, Nginx, Cloudflare, ElasticStack, REST API, JSON-RPC
- AI/ML :** Transfer Learning (Object Detection, Image Classification), Quantization [YOLO & Keras models]

Additional Tools / Soft Skills

- **Cloud:** AWS (EC2, S3), GCP, Cpanel (Shared Hosting)
- **DevOps:** Github Actions, Zabbix, Elasticsearch cluster
- **Networking:** Firewall configuration, port management
- **Security:** SSL/TLS configuration (Cloudflare/Apache/Nginx)

Education

B.Sc. in Computer Science & Engineering

Jan 2019 - Dec 2024

Stamford University Bangladesh

CGPA : 3.72

Higher Secondary Certificate

2016 - 2018

Dr. Mahbubur Rahman Mollah College

GPA : 4.83

Secondary Secondary Certificate

2005 - 2016

Mohiuddin Badal Collegiate School

GPA : 4.94

Reference

Sharif Hossain

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