

# Kishan Mrug

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## Technical Skills

- **Languages** – Java, Python, JavaScript, PHP, Golang, C++, HTML5
- **Frameworks & Libraries** – Spring Boot, React, Node.js, Express, Bootstrap, jQuery, Tailwind
- **Databases** – MySQL, PostgreSQL
- **Tools & Technologies** – Docker, Git, REST APIs, CI/CD, Redis, JSON, Jira
- **Concepts** – Full-Stack Development, Database Management, DevOps, OOP, Testing, Cloud Computing

## Work Experience

### Backend & DevOps Engineer

Self-Employed / Open-Source, Qatar

Jan 2025 – Present

- Developed a **Discord-integrated automation system** for managing **Minecraft servers** using **Java (JDA)** and **Maven**.
- Built server lifecycle controls (start/stop/status/restart) using ProcessBuilder, reducing manual effort.
- Built a log-parsing module to track and display real-time player stats within Discord, enhancing visibility and control.
- Deployed the system to **AWS EC2** using **Docker**, with CI/CD powered by **GitHub Actions** for 24/7 uptime.
- Set up secure infrastructure with **GitHub OIDC + AWS SSM**, eliminating the need for exposed SSH ports.
- Added smart Discord webhook notifications for deployment status to improve observability.

### IT Support Officer

Apr 2024 – Jul 2024

Green Hub International, Qatar

- **Revamped the company's website**, enhancing online presence and user engagement.
- **Recovered critical data** from malfunctioning PCs, reducing data loss incidents.
- **Implemented a file-sharing network**, improving team collaboration by **30%**.
- Assisted in **hardware and software setup**, ensuring smooth customer experiences.

## Projects

### JIA Application — Web App Security Migration & Vulnerability Resolution

Jan 2023 – Apr 2023

- Migrated the web app to a **Linux-based cloud platform**, increasing stability by **40%**.
- Integrated **Redis caching**, reducing response time by **40%** and boosting concurrent user capacity by **50%**.
- Configured a rate limiter, improving login and registration speed by **20%**.
- Conducted **vulnerability assessments** with **Snyk**, reducing security threats by **60%**.
- Integrated **Google reCAPTCHA**, preventing DDoS attacks and unauthorized access.

### Real-time Grocery Website

Jan 2022 – Apr 2022

- Designed a **full-stack e-commerce platform** using **PHP, JavaScript, PostgreSQL, and Bootstrap**, increasing conversion rates by **25%**.
- Implemented **Google Maps API autocomplete**, reducing delivery address input time by **80%**.
- Developed key features: **user authentication, product browsing, shopping cart, and checkout system**, leading to a **30% boost in traffic**.
- Followed **Agile methodologies** using **Jira**, ensuring timely feature delivery.

## Education

### University of Ottawa, Canada

Apr 2023

Bachelor of Science, Computer Science

- **Relevant Courses:** Secure Systems & Cryptography, Image Processing & Analysis, Artificial Intelligence, Operating Systems

## Skills & Achievements

- **Advent of Code** – Solved competitive programming challenges, refining problem-solving skills and algorithm knowledge in **Java** and **Python**.
- **Licenses** – PGWP (Valid until: 13/09/2026), Driver's License (Valid until: 25/07/2027)
- **Currently Exploring** – Oracle ERP Foundations, AWS Cloud Practitioner