

Mugdha Behere

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EXPERIENCE

Software Engineer | *Borderfree Technologies* | November 2021-January 2023

- **Developed and deployed** backend APIs for high-traffic, scalable e-commerce portals using **Go**, focusing on enhancing system performance and reliability within an AWS cloud environment.
- Built and integrated user-facing **frontend modules** for critical e-commerce checkout and merchant portals using **React and JavaScript**, contributing to improved workflow and usability.
- Achieved **independent contribution** to **core backend services** within **2 months** by rapidly mastering **Go fundamentals, Postman API testing, and production-level API design best practices.**

PROJECTS

NetSimulator : Network Routing Simulator | *Python, FastAPI, Render, Vercel, Locust*

- Developed a **Python backend API** to simulate **5 different graph traversal algorithms** for finding optimal network paths.
- Engineered and executed a **performance testing suite** using **Locust**, **scaling from 10 to 200 concurrent users** to measure system limits and algorithm efficiency.
- Uncovered a critical concurrency flaw in the persistence layer, evidenced by a **100 percent failure rate under load**, and benchmarked the system's peak throughput at **approximately 14 requests/second.**
- **Link:** <https://netsimulator.vercel.app>

Jet Reader: Fast Reading Assistant | *React, JavaScript*

- Built a **React-based** tool for **parsing PDF and text files** and displaying a dynamic word stream at user-defined speeds.
- Enhanced readability by **bold-highlighting word prefixes, improving reading speed and comprehension.**
- Designed **intuitive controls** for real-time speed adjustments and pause/resume functionality.
- **Link:** <https://jetreader.vercel.app>

Vocabulum: Multilingual Dictionary with Caching and Search (In Progress) | *React, Java, LRU Cache, Elasticsearch, DSA*

- Implemented a multilingual dictionary with support for translation via external APIs and caching for performance.
- Integrated **LRU cache** and **Elasticsearch** to reduce API calls and achieve low-latency lookups.
- Supports flexible input of source and target languages with fallback to English for intermediate translation.

EDUCATION

Indraprastha Institute of Information Technology, Delhi | *Post Graduate Diploma in Computer Science and Artificial Intelligence* | **GPA: 7.1** | 2022 - 2023

Vellore Institute of Technology, Chennai | *Bachelor of Technology, Computer Science and Engineering* | **CGPA: 7.4** | 2012 -2018

CERTIFICATIONS AND PROFESSIONAL DEVELOPMENT

Duke University | *Post Graduate Certificate in Product Management (online on upGrad)* | 2022 - 2023

Growth School | *Product Management Career Accelerator Program* | 2022 - 2023

Scaler Academy | *Year-long course focused on Data Structures and Algorithms and System Design* | 2020 -2021

AWARDS

Hacktoberfest 2023 Participant | *GitHub* | October 2023

TECHNICAL SKILLS

Languages : **Java (Preferred)**, Go, Python, SQL

Cloud and DevOps : **Amazon Web Services**

Core Concepts : **Data Structures and Algorithms, System Design, Object Oriented Programming**

Databases and Search : **MySQL, Dynamo DB, Elasticsearch**

Libraries and Frameworks : **React, Gin, FastAPI.**