

# Md Somir Khan

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## SKILLS

**Languages:** Java, C++, Python, PHP, C, SQL, R

**Web Development:** JavaScript, HTML/CSS, Vue Js, Laravel, React, Node Js

**Technology:** Git, AWS, Nginx, MySQL, MongoDB, Unix

## EDUCATION

**University of Louisiana at Lafayette**

Lafayette, LA, USA | January 2023 - May 2025 (Ex)

MASTER OF SCIENCE IN COMPUTER SCIENCE | CGPA: 3.90/4.00

Teaching Assistant (TA): Introduction to Data Structures and Software Design

**Khulna University of Engineering & Technology**

Khulna, BD | March 2016 - March 2020

BACHELOR OF SCIENCE IN COMPUTER SCIENCE AND ENGINEERING | CGPA: 3.22/4.00

## WORK EXPERIENCE

**NAGORIK TECHNOLOGIES LTD.** 

SOFTWARE ENGINEER

Dhaka, BD | November 2021 – December 2022

- Built a **payment gateway** and integrated payment systems in multiple applications. Designed dashboards to visualize the data stored into **MySQL** using **Vue**. Designed **REST API** and **Webhooks**, which are used by 8 applications.
- Developed backends for game portals and quiz-based web applications that serve around 1 million users each using **Laravel** and created admin portals and dashboard report sections for those applications using **Vue**.
- Deployed and managed projects on **AWS EC2** instances and Digital Ocean **Droplets** using **Nginx**.
- Worked on **Query Optimization** and **Caching** on several projects that serve around **0.7 Million Users** each.

**MAZEGEEK TECHNOLOGIES BD LTD.** 

SOFTWARE ENGINEER

Dhaka, BD | August 2020 - October 2021

- Worked on an omni-channel chatbot builder project. Used **Meta** and **Viber API**.
- Worked on an omnichannel bulk messaging system on **Viber** and the cellular network and also designed a dashboard for Data visualization and reports.
- Worked on an Ekyc project on user and admin portal used **Google Vision API** to extract data from ID cards and used **Python** for face recognition.
- Built a cricket live score management system using **Laravel** and **JQuery**

## PROJECTS

**AUTHORSHIP ETHICS AND BIBLIOMETRIC DATA ANALYSIS (CURRENT THESIS)**

PYTHON, SQL, R

My current thesis research involves bibliometric data analysis of scholarly data collected from 1991 to 2024. For data collection, I have used Python libraries such as **Selenium**, **Pandas**, **Matplotlib**, and **Beautiful Soup**. For data analysis and visualization, I am using **Python** libraries and the **R** language.

**NAGORIK PAYMENTS** 

LARAVEL, PHP, MYSQL

Developed a payment gateway and integrated it into more than **8 in-house applications**. Designed the database using **MySQL** for efficient data management. This project handles over **1 million successful transactions** daily. Created **REST API** endpoints and utilized **Jobs** and **Scheduler** to process and dispatch around **10 Million Webhooks** daily, as well as generate daily reports. Implemented **caching** and executed **complex queries** to deliver real-time reports on the dashboard.

**SENTIMENT ANALYSIS FOR BENGALI SENTENCES**

PYTHON, NLP, ML

Developed a Sentiment Analysis tool for Bengali sentences using CNN-BLSTM, achieving higher accuracy (86%) than conventional models. Curated a Bengali dataset from Twitter and YouTube.

**HAND GESTURE CONTROLLED CAR**

PYTHON, ARDUINO, RASPBERRY PI, ROBOTICS

Developed a Hand Gesture Controlled Prototype Car, utilizing a Raspberry Pi, accelerometer sensor, and radio signals. This prototype car is built to demonstrate the use of gesture-controlled wheelchairs for disabled individuals.