# Kamal Singh

**Phone: 07585683093** • **Email: kamalsingh200239@gmail.com** • **Website: kamal-singh.netlify.app**
**LinkedIn: linkedin.com/in/kamal--singh** • **GitHub: github.com/kamalsingh200238**

## PERSONAL STATEMENT

A skilled full-stack developer with experience in creating responsive front-end interfaces and scalable back-end systems. Capable of handling everything from development to deployment. With a deep interest in cybersecurity and cloud technologies, continuously seeking opportunities to learn and grow while maintaining a strong focus on teamwork.

## EDUCATION

**BSc (Hons) Computer Science**                                                          **September 2023 - May 2026**
**University of Bradford**                                                                **1st Year Average: 87.33%**

- Developed a strong foundation in data structures and complex logic for software applications.
- Gained essential knowledge of networking fundamentals, enhancing technical proficiency.

**Diploma In Computer Applications**                                                      **July 2019 - June 2020**

- Subjects: Computer Fundamentals, Operating systems, MS Office, Tally, Internet and HTML

**High School**                                                                          **May 2019**
**Kendriya Vidyalaya**                                                                    **Last Year Result: 86%**

- Subjects: English, Mathematics, Physics, Chemistry, Computer Science.

## EMPLOYMENT HISTORY

**Full-stack Developer**                                                                 **October 2023 - Present**
**Exa Networks**                                                                         **Bradford, UK**

- Developed a high-performance analytics page within a dashboard to analyse millions of data points using JavaScript, HTMX, Golang gRPC server, Python backend, and ECharts, significantly improving data visualization capabilities. This included implementing a microservice architecture with gRPC for efficient data formatting and utilizing various optimization techniques such as caching and preloading data to enhance page load times and overall performance. Additionally, created a comprehensive log viewer tool integrated with advanced filtering and one-click filters to streamline troubleshooting processes for customers and support teams.
- Designed a seamless onboarding experience using HTMX, Tailwind CSS, and Golang, integrating with Salesforce for efficient data management and automated email notifications. Implemented pagination across multiple dashboard pages to further enhance page load speeds and overall system performance.
- Deployed all services using Nomad by Hashi Corp, gaining valuable experience with scheduler-based deployment systems.
- Additionally, learned about networking and utilized Wireshark to diagnose and troubleshoot network issues.

**Volunteer Software Developer**                                                         **March 2023 - August 2023**
**Giving Forward**                                                                        **New York, United States (Remote)**

- Developed login and sign-up functionality using Google OAuth, integrating secure user authentication with JavaScript to enhance user experience and application security.

**Computer Operator**                                                                    **September 2020 - September 2022**
**Future Finders**                                                                        **Punjab, India**

- Maintained main systems, primarily using Linux, and troubleshot hardware issues while checking data integrity and system performance.

- Installed software updates and security patches, and operated various machines, including desktops and printers, to ensure smooth operations.

## PROJECTS *(PLEASE REFER TO MY WEBSITE FOR THEIR SOURCE CODE AND LIVE LINKS)*

### SocioManage
- An app built using Laravel, PHP, SQLite, and Tailwind CSS to manage societies in an university.
- App has multiple roles: coordinator, president, and student. Coordinators manage everything, presidents manage their society, and students can enrol in societies. Used SQLite to store all data.
- Users can login, sign up, reset password, and use forgot password feature, with email notifications.

### Novel scrapper bot
- Developed a novel scraper bot using Python and the Botasaurus framework. The bot prompts users for novel name, book link, and desired chapter range. It then scrapes the specified chapters and generates an EPUB file. The script utilizes Botasaurus for efficient web scraping and EPUB creation. Implemented advanced techniques to bypass Cloudflare bot protection, enabling reliable scraping from protected websites.

### World wise app
- A WorldWise app built using React, Next.js, and Tailwind CSS to show data about countries through a REST API. It has dark and light mode options for user preference. The app allows users to view basic information about different countries in a simple layout.

## SKILLS

- Programming: Python, JavaScript, Golang (1 year experience each)
- Web Development: HTML, CSS, building responsive and visually appealing websites
- Database: SQL, data management and querying
- Analytics: Developed analytics page, demonstrating strong analytical skills
- Network Diagnostics: Proficient in Wireshark packet capture for troubleshooting
- Software Testing: Experience in testing applications for quality assurance
- Concurrent Programming: Built a multi-threaded web scraper using Golang

## REFEREES

Mr. Rajan Mahey
Cloud Security Architect, Check point software

Email: rajan-mahey@hotmail.co.uk

Mr. Karim Sadik
Academic Placement Lead, Computer Science

Email: A.Sadik@bradford.ac.uk