SAJAL KUIKEL

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EDUCATION

NAMI College, University of Northampton *2019 - 2022*
Bsc. (Hons) Computing (Software Engineering)

Trinity International Secondary School *2017 - 2019*
NEB (+2 Science)

SKILLS

Programming Languages:	PHP, Python, Java, JavaScript, C++,
Frameworks & Tools:	**Backend:** Laravel
	Frontend: Vue.js, Bootstrap
	Database: MySQL, PostgresQL, MongoDB, Neo4j
	Other: Jupyter, PL/SQL, MATLAB, Git, Github, Figma, Office.

EXPERIENCE

BMP Infology *Sep 2021*
Intern
- Learned and practiced advanced Laravel topics such as queues, jobs, emails, notifications, custom artisan commands, events, listeners, and REST APIs.
- Worked on a To-Do app called 'BMP task-manager'

PROJECTS

E-commerce recommender system *May 2022*
Jupyter Notebook
- Researched the state-of-art artificial intelligence techniques used for the recommender system.
- Used an open-source solution to demonstrate the concept that used Amazon's product review dataset to provide a recommendation.

Bharosha LIMS *Apr 2022*
Laravel
- A laboratory information management system created for Bharosha Hospital as part of the dissertation.
- Waterfall software development methodology was followed. Requirements engineering was done with stakeholders at Bharosha Hospital through interviews, task observation, document review, and ethnographic research.
- Researched about and implemented the Delta check mechanism into the application.

EPL matches graph database *Mar 2022*
Neo4j
- Designed a graph database for the given EPL matches dataset, imported the data, and wrote queries for given scenarios.

Facial emotion recognition system using Deep Learning *Mar 2022*
Jupyter Notebook, Node.Js
- Researched on sentiment analysis through facial emotion recognition, using a Deep Convolutional Neural Network
- Created a model, trained and tested with the FER2013 dataset, and implemented the model in a web app using Node.js

Fotheby's Auction House *Jan 2022*
Laravel
- A web app where buyers and sellers interact with the biddable items on an auction. After the auction period is over,

the bid item gets sold to the highest bidder. Admins of the system manage auctions, generate reports, view analytics, approve items/users, and more.

Sound Annotator *Jan 2022*
MATLAB
- A sound annotator application created using MATLAB that has features like mixing audios, trimming, changing playback speed and volume, and converting the audio format.

Woodland University Course Management System *Jun 2021*
PHP
- A group project done by following Agile software development methodology. Handled the role of project manager and software developer, conducted interviews for requirement gathering, and worked on the modules like User records, module records, assignment management, attendance management, diary management, timetable management, and report generation.

Tour Planning Database *Jun 2021*
PL/SQL
- Built a database from the given ER diagram using PL/SQL, and created procedures, functions, triggers, and cursor for the given conditions.

Kates's Kitchen *Jun 2021*
PHP
- A restaurant management system to manage menus, and reservations.
- Renovated an existing PHP web application. Improved the code quality by changing its structure, using separation of concerns, transforming duplicated code into functions for re-usability, and optimizing the security by using encryption.

Northampton Vehicle Hire System *Jun 2021*
Java
- A vehicle rental system where admins can list different types of vehicles and customers can loan them and use other available features.

Northampton News *Jan 2021*
PHP
- A dynamic news portal website created using PHP and MySQL.

COURSES AND TRAININGS

Advanced SQL for Data Scientists *Jun 2022*
LinkedIn Learning

Python Data Structures and Algorithms *Jun 2022*
LinkedIn Learning

SQL Essential Training *Jun 2022*
LinkedIn Learning

Data Analysis with Python *Jun 2022*
FreeCodeCamp

Programming Foundations: Software Testing/QA *Jun 2022*
LinkedIn Learning

Building Web Applications in PHP *Oct 2020*
Coursera (University of Michigan)

Interactivity with JavaScript *Sep 2020*
University of Michigan (Coursera)