Khalid Karim

236-339-8382 | kka164@sfu.ca | linkedin.com/in/khalidkarim24 | github.com/khalidkarimkqr

TECHNICAL SKILLS

Languages/Databases: Python, C/C++, C#, MATLAB, SQL, JavaScript, HTML/CSS, MongoDB
Frameworks: React, Next.js, Node.js, TensorFlow 2.0, Express, Unity
Developer Tools: Git, VS Code, PyCharm, Google Colab, Jupyter, Conda, Stripe, Parcel, Babel, Strapi
Libraries: Pandas, NumPy, Matplotlib, SciKit-Learn, Seaborn, Keras, Mongoose, Leaflet, Mirror

EXPERIENCE

Full-Stack Developer — November 2024 – Present
CJSF 90.1FM Radio — *Burnaby, BC*

- Developed and deployed a responsive web application using Next.js and Node.js, optimizing performance and user engagement.
- Configured and integrated Strapi CMS with Next.js, enabling dynamic content management and streamlining workflows for non-technical users.
- Collaborated on feature implementation and used Git for version control to maintain efficient code management and deployment pipelines.

President of the Math and Computer Science Club — June 2021 – March 2023
Delhi Public School — *Bangalore, India*

- Led team projects and competitions, achieving recognition in math and coding contests
- Organized monthly tech talks with industry professionals to connect theory with real-world applications
- Initiated STEM outreach events to inspire local youth in technology and mathematics

PROJECTS

RoamCraft | *React, NodeJS, MongoDB, Mongoose, Express* — May 2024 – July 2024

- Developed a **MERN** stack application that allows users to book tours with a **RESTful API** in Node.js, incorporating user authentication, role-based access control, and Stripe for payments.
- Created a dynamic **React** frontend, optimizing performance with geospatial queries and aggregation pipelines in MongoDB, and reducing errors by 25% through testing with Postman and Mocha.
- Deployed the application on Heroku and MongoDB Atlas, ensuring scalability and high availability in a cloud-based environment.

RecipeHub | *HTML, CSS, Javascript* — Oct 2023 – Jan 2024

- Built a web application for searching, viewing, and bookmarking recipes, leveraging **JavaScript** to provide an intuitive platform for meal planning and cooking inspiration.
- Created a bookmarking system with local storage for saving favorite recipes, enhancing user engagement by allowing bookmarks to persist across sessions, while utilizing **DOM** manipulation for a dynamic interface.
- Designed a responsive user interface using HTML and CSS, employing **Flexbox** for layout and media queries for adaptability across devices, resulting in an intuitive navigation experience for users.

Dog Breed Classification | *Python, TensorFlow 2.0, Keras, NumPy, OpenCV* — Dec 2022 – March 2023

- Developed a **deep learning model** using Transfer Learning techniques with **TensorFlow 2.0** to accurately classify various dog breeds from images.
- Built and optimized models with Keras, utilizing VGG16 and ResNet50 to enhance classification performance while employing data augmentation to diversify the training dataset and reduce overfitting.
- Assessed model performance using accuracy, precision, and recall metrics, achieving superior classification rates for efficient dog breed identification with **95% accuracy**

EDUCATION

Simon Fraser University — Burnaby, BC
Bachelor of Applied Sciences in Computer Science — *Sep. 2023 – Dec 2027 (Expected)*