# Suyog Budhathoki

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## EDUCATION

**Lambton College** – College Diploma in Computer Programming                                        Aug 2024
Toronto, Ontario, Canada

## TECHNICAL SKILLS

**Languages:**  Python, JavaScript, Typescript, Java, C/C++, SQL

**Technologies:** Linux/Unix, Git, RESTful APIs, React.js, Node.js, Docker, TensorFlow

**Concepts:**  Object-Oriented Design, Distributed Systems, Agile Methodologies, Test-Driven Development

## PROJECTS

**Scalable Digital Marketplace**

- Architected and operated a high-performance e-commerce platform for digital artworks using Next.js and TypeScript, leveraging server-side rendering and static site generation for optimal speed and scalability.
- Engineered efficient, type-safe API endpoints with tRPC, ensuring robust backend-to-frontend communication and minimizing errors.
- Utilized MongoDB and Payload CMS for scalable data management, leveraging MongoDB's flexible schema design for efficient product and user data handling
- Implemented secure payment processing and checkout workflows using Stripe API, enhancing transaction security and customer trust

**Real-time Blog Application**

- Developed an interactive blog platform using Node.js and Express.js, using Node.js event-driven architecture and efficient routing and middleware integration provided by Express.js
- Designed and Initiated RESTful APIs to handle CRUD operations for blog posts, comments, and user profiles, safeguarding standardized communication and facilitating seamless client integration
- Incorporated real-time functionality to enhance user engagement through live updates, improving overall user experience.
- Optimized MySQL for efficient data storage and retrieval to enforce data integrity through constraints and relationships, ensuring that the data remains accurate and consistent.

**Django Quiz Application**

- Designed and implemented a robust quiz application with random quiz generation, providing unique sets of questions per user session. Served 250+ unique quizzes to 30+ students.
- Consolidated user authentication for secure access, allowing personalized user profiles and score tracking.
- Established a comprehensive metric dashboard delivering crucial data points on student performance trends while tracking unique quizzes taken through MySQL integration for efficient retrieval processes.
- Integrated MySQL for efficient storage and retrieval of quiz questions, user profiles, and score data, ensuring fast and reliable data management.

**Handwriting Recognition with TensorFlow**

- Engineered an intelligent handwriting recognition system using TensorFlow and Python.
- Trained a convolutional neural network (CNN) on the MNIST dataset, achieving high accuracy of 96% in character recognition

**Portfolio**

- Built a modern, responsive portfolio website using NextJs and Integrating UI components from Shadcn and framer motion for animations.
- Effected a secure contact system using SMTP and Nodemailer, enabling direct communication with client's communications while protecting against spam and ensuring reliable email delivery.