

KIRAT BAINS

CONTACT

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EDUCATION

THE UNIVERSITY OF BRITISH COLUMBIA

Bachelor of Arts in Philosophy
2018-2023

BRAINSTATION VANCOUVER

Diploma of Software Engineering
2024

SKILLS

Languages: Python, Javascript
Cloud: GCP, Azure, AWS
Databases: MySQL, PostgreSQL
API: Axios, FastAPI, REST-API
Frameworks: Express/NodeJS, Django, React, Flask

CERTIFICATION

GCP ASSOCIATE CLOUD ENGINEER

March 2024

AZURE AZ-900

October 2023

WORK EXPERIENCE

SOFTWARE DEVELOPER

Dicta (May 2023 - October 2023)

- Designed, developed and maintained a text-to-speech synthesis API that leverages the power of Azure and GCP for efficient audio generation from large text files. Implemented a robust system for input processing by extracting text data from GCP buckets.
- Developed logic to break down large text files into character limits to ensure seamless processing. Integrated Azure Machine Learning models for speech synthesis into the API workflow.
- Participated in development life cycle activities and participated in code reviews to ensure high quality software development standards were met.

TEAM LEAD

Start-Up (April 2024 - Current)

- Developed and deployed a scalable e-commerce platform to the cloud, focusing on high availability and load balancing to handle peak traffic. Achieved a 99.9% uptime and successfully managed traffic spikes with up to 10,000 concurrent users during peak times.
- Designed RESTful APIs and architected a MongoDB database schema for efficient product inventory management, user authentication, and order processing, reducing data retrieval time by 40%.
- Designed and implemented a front-end interface with React for dynamic content rendering, and developed secure backend APIs with Express and Node.js, and employed cloud analytics for real-time insights, improving product offerings and user engagement.

PROJECTS

FULL-STACK MERN APPLICATION PROJECT

BrainStation Vancouver (February 2024)

- Spearheaded creation of a web app using MySQL, Express, React, and Node, focusing on responsive design, API integration, and server-side processing for enhanced UX and efficiency.
- Collaborated in a fast-paced agile environment, contributing to iterative development, sprint planning, and scrum meetings, resulting in timely and efficient project delivery.
- Crafted a scalable MySQL schema with migrations for efficient data storage, and relationship management, boosting performance and integrity.

DJANGO BACKEND APPLICATION

(March 2024)

- Engineered a task management tool with Django, featuring a robust task scheduling, reminders and recurring task functionality, boosting task completion rates by 30%.
- Designed and implemented RESTful APIs for seamless full stack integration and third party services like Google Calendar, for enhanced user experience.
- Optimized PostgreSQL database schema for query performance, and implemented caching with Redis. Ensured data security with encryption and thorough input validation, achieving 90% test coverage with automated testing and comprehensive documentation for maintenance.