

ARAD PARSHAD

(514) 991-8839 | Mail | GitHub | LinkedIn | Portfolio

EDUCATION

University of British Columbia | Bachelor of Computer Science and Data Science Sep 2021 - Present
Relevant Coursework: Design Principles & Patterns for Software Engineering, Algorithms & Data Structures
Cloud Computing: Data Storage, Processing, Analysis, and Visualization for Big Data

EXPERIENCE

Kidoz | Software Engineering Intern Vancouver, May 2024 - August 2024
Go, Node, Laravel, AWS

- Extended Go-based system to automate ad prevention services upon reaching 125 percentages of targets.
- Implemented kid-friendly filters for the ad bidding system, increasing customer coverage.
- Refactored a monolithic Laravel system into microservices, improving scalability by 50 percents.

Kidoz | Full Stack Developer Intern Vancouver, May 2023 - August 2023
Regex, Laravel, Golang

- Optimized MongoDB and SQL data migration processes by 50%.
- Implemented integration tests and improved Laravel testing libraries.
- Implemented cross-platform php.ini modification tool using Regex, Bash and Bats to expedite setup by 10%.

PROJECTS

NoSQL Query Engine Repository
TypeScript | React | Express

- Processes diverse data types, including HTML, ensuring compatibility and accurate results.
- Validates query formats dynamically using EBNF specifications and Abstract Syntax Trees (AST).
- Applies AST-driven filters to data records, enabling precise and scalable query handling.

Distributed Image Recognition Repository
Python | Tensorflow | Sagemaker

- Train, save, and deploy a CNN model on CIFAR-10 using AWS SageMaker's distributed training for scalability.
- Use Amazon S3 for storage, monitor training with SageMaker and deploy as a real-time endpoint.
- Leverage SageMaker's experiment tracking and built-in tools to streamline the ML workflow.

Health Tracker Repository
Java | Java Spring UI

- Developed an app for daily check-ins to monitor mental and physical well-being.
- Designed a system that analyzes user data to provide personalized health alerts and tailored meal suggestions.
- Integrated comprehensive goal setting with profiles and progress tracking for continuous lifestyle improvement.

Melodybrush Repository
JavaScript | React | Python | Tailwind CSS | AWS

- Transforms song lyrics into artwork through Amazon Bedrock's Jurassic-2 Ultra and Stable Diffusion XL 1.0 LLMs.
- Conducted hyperparameter tuning on Jurassic-2 (generated descriptive prompts) and SDXL (produced artwork).

SKILLS

Languages: Javascript (Typescript) • Java • Python • C • SQL • HTML/CSS • C#

Technologies: React.js • Node.js • Express.js • GraphQL • Git • Docker • Apache Spark • AWS • .NET