Priyanka Kumar

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LANGUAGES AND TECHNOLOGIES

C# | C++ | PHP | C | SQL | JavaScript | Angular | .NET | Node.js | Laravel | Docker

PROFESSIONAL EXPERIENCE

Arcadis IBI Group

September 2022 - December 2022

Software Developer

Toronto, Canada

- Developed Node.js Ticketing Application integrating Zendesk APIs, resolving 50,000+ tickets annually
- Built CLI tool leveraging Laravel/MySQL to simulate 20,000 user transactions per minute
- Created C# tool streamlining Docker container management, reducing onboarding time by 35%
- Formulated test cases across 15+ product areas using PHP/Laravel achieving 100% code coverage

Teranet Inc January 2022 - April 2022

Software Developer

Mississauga, Canada

- Implemented concurrent database access across 25 simultaneous multi-threaded applications
- Resolved critical race conditions which caused database corruption, reducing errors by 9%
- Created webapp using **RESTful** services with HTTP handlers in **C#** for managing concurrent applications
- Engineered front-end application in Angular, simplifying codebase and reducing development times by 22%

Buckets Investing

May 2021 - August 2021

Software Engineer

Toronto, Canada

- Designed MySQL database storing quantitative factors for statistical analysis of portfolios, stocks and ETFs
- Developed automated pipeline using Python to aggregate, sanitize and categorize 1000+ of stocks daily
- Integrated external APIs with mobile/web app to execute trade orders and analyze broker transactions
- Engineered ML algorithm in Python providing personalized stock recommendations to users



Object Following Cart

- Built autonomous vehicle capable of identifying and tracking a target from its environment
- Implemented object detection algorithm using OpenCV/Python to track objects and guide the cart by analyzing the HSV values of livestream feed
- Developed the object following cart by making use of Raspberry Pi, PiCamera, Motors and cart chassis

Chess Engine

- Built full-featured chess engine using C++ with CLI/graphical UI supporting human & computer players
- Developed AI strategies, move validation system and board state evaluation algorithms

