

# KAHAN DESAI

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## TECHNICAL SKILLS:

**Programming:** C/C++, Python, Java, JS, HTML+CSS, C#, React-Native, Kotlin, NodeJS, ReactJS.

**Tools/Tech.:** Visual Studio, AWS (Cloud9, EC2, S3), Azure DevOps, MySQL, MongoDB Atlas, Git, Docker, Flask, Pandas.

**Skills:** Problem Solving, Data Structures & Algorithms, Full-Stack Development, Cloud computing, Linux/GNU systems, QA & Testing, Low-level prog., Debugging, Data analysis, Machine Learning, Team Player, Communication.

**Competitive Participation:** DSA & DP: [CodeForces](#), [Geeksforgeeks](#) | Data Sci & ML: Kaggle.

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## EDUCATION:

**Bachelor of Computer Science (CO-OP)**

Sep 2022 – Aug 2026

Conestoga College | Waterloo, Ontario

### Highlighted courses:

- A+ in Software Design (**Java**), Probability and Statistics (**R prog.**), UX Testing tools (**UI/UX: Research based**), Object Oriented Programming (**C++**), System Analysis Design (**Azure DevOps, JIRA**), Database Management Systems (**MySQL**), Linear Algebra and Discrete Math (*Recommendation letters available*)
- A+ in Project based courses in all 4 semesters, indicating skills like: teamwork skills, version control, full-stack software development, DevOps, and various testing methodologies.
- Currently Learning: Parallel Computing, Data Science and ML, Neural Networks, Cloud Computing with AWS.

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## RELEVANT EXPERIENCE:

**Web Master**

Apr 2024 – Present

[KW Chess Club](#) | Kitchener, Ontario

- Optimized cloud services on **Hostinger**, reducing hosting costs by over 65% while ensuring scalability to handle traffic spikes, along with regular maintenance of website.
- Improved website usability and UI, reducing redundant inquiries by almost 90%.
- Developing full-stack website with membership, merchandise, and account management integrated, as well as automated services for notifications, updates, scheduling, etc.
- Utilizing **NodeJS** for backend services, and **ReactJS** for the UI of the website; with database in **PostgreSQL**.

**Software Developer**

May 2023 – Present

[UinSports Inc.](#) | Waterloo, Ontario

- Developed 8 reusable **react-native** components for [Mobile app](#) covering the sports statistics and payment gateways.
- Contributed to Back-end development using **Python** micro-services, deployment on **Docker** (with **AWS Cloud**).
- Added UI enhancements that improved user satisfaction and streamlined UX, increasing user retention by 25-30%.

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## PROJECT WORK:

[Conestoga Connects](#)

Feb 2024 – Apr 2024

- Developed a peer networking platform with separate client and admin portals using **C#** and **Blazor WebAssembly**, integrated with **MongoDB** for database management and **ASP.NET Core** for user authentication.
- Conducted comprehensive **testing** with over 97% code coverage using **BUnit**, **NUnit**, **MSTest**, **JMeter**, and **Selenium WebDriver** for UI, server, and performance optimization.

[RoadQuest: Driving-Skills Assessment Application](#)

Sep 2023 – Dec 2023

- Utilized **Express-NodeJS** for the back end to incorporate features like navigation functions and real-time monitoring of smartphone sensors for driving skills assessment.
- Utilized **MongoDB** for database management, while implementing the Android-native mobile UI in **Kotlin** to efficiently process accelerometer and gyroscopic sensor data for precise skill evaluations.
- The project, as a cornerstone of System Analysis and Design, was completely managed using **Azure DevOps**, implementing Agile process, by using **Azure Boards** and other project management tools.

[LazyPrint: Simplified Printing](#)

Sep 2023 – Dec 2023

- Crafted the implementation of dynamic scheduling algorithms and filter-based sorting, optimising job assignments and showcasing algorithmic proficiency, all using **Python**.

- Employed **ReactJS** for front-end, **Pandas** for data analysis in scheduling, and **Flask** for **CORS** and **REST API**.
- Provided vital support in team management, managing features pipelines, and working through internal team challenges, resulting in an 80% growth in productivity after leadership transfer.

#### Study-Incentivizer: Gamifying Self-Study

Oct 2023

- Guided the creation of a gamified self-study application during an 8-hour ConHacks hackathon, showcasing rapid development skills using **ReactJS** for frontend and **Python** for backend.
- Implemented face and screen-content tracking functionalities to ensure genuine study sessions, highlighting a keen focus on incorporating innovative solutions within time constraints.

#### Phone Orientation Predictor

Apr 2023

- **C++** project that reads phone sensor data, predicts orientation using machine learning algorithms, and manages training data. Implemented object-oriented concepts thoroughly, learnt vectors in C++, well-documented code using doxygen, and UML diagrams. **GDB** was used for debugging and testing purposes.

#### Saviour In Darkness

Feb 2023 – Apr 2023

- Integrated strong foundational programming principles including pointer arithmetic, dynamic memory allocation, data structures, recursion, Enums and file handling, along with effective unit and integration testing of all modules.
- Enhanced memory management and gameplay efficiency, reducing system memory usage by 15%.

### ADDITIONAL EXPERIENCE:

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#### Leadership and Executive (Community):

- *President* Oct 2023 – Present  
Kitchener-Waterloo Chess Club
  - Led multiple volunteer teams, overseeing club operations and event execution across KW region.
  - Allocated budgets and organized chess events, ensuring the financial health and growth of the club.
- *Governor* Jun 2024 – Present  
South-Western Ontario Chess League
  - Participating in high-level decision-making for chess event planning and budgeting.
  - Collaborate with Ontario Chess Association members to execute strategic plans for regional chess tournaments and events, ensuring smooth operations and optimal resource allocation.
- *Teacher/Instructor* Oct 2023 – Present  
Grand River Chinese School, Williamsburg Community Association
  - Teaching beginner and intermediate chess students with structured course delivery and evaluations.
- *Youth/Program Leader* Jun 2023 – Present  
City of Kitchener
  - Designed and led youth programs, increasing youth participation by over 50% in chess and board games programs and fostering leadership skills in over 20 youth volunteers.

#### Communication and Leadership (Business):

- *Account Executive (Sales)* Feb 2023 – May 2023  
AGM Advantage | Kitchener, Ontario
  - Conducted direct sales for Triangle Mastercard, underwent professional sales and leadership training.
- *Door-To-Door Sales Representative* Nov 2022 – Jan 2023  
Home Service Solutions | Kitchener, Ontario
  - Booked quotes for eavestrough replacements through effective door-to-door communication persisting even in extreme weather.

#### Noteworthy Events (Tech and Innovation):

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- *Startup Representative* Jun 2023  
Collision Conference 2023 | Toronto, Ontario
  - Representing UinSports, I handled a busy booth pitching to potential investors, VCs, partners, other companies etc. for over 3 days, meeting over 4000 industry leaders, tech innovators, and businessmen.
  - Attended various tech events within the conference, learning a lot about technology and software world along the way. This included: AI, AWS cloud services, software trends, UI optimization, profitable software production, QNA with experts, User acquisition techniques, etc.