KAIXUAN HU

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EDUCATION

Simon Fraser University   Burnaby, BC
MSc, Master of Visual Computing   *Sep 2023 – Dec 2024*

University of Alberta   Edmonton, AB
BSc, Computing Science with Honors   *Sep. 2019 – June 2023*
- **Awards:** Dean's Silver Medal in Science, International Student Scholarship (2019-2023)

SKILLS

Languages/Frameworks: JavaScript, React.js, Node.js, AWS, C#, .NET, Django, Python, C++, Java, HTML, CSS
Others: Git, Docker, Agile, RESTful APIs, MySQL, PostgreSQL, MongoDB, SQLite, EF Core, Sequelize, Jest, Selenium

EXPERIENCE

Software Engineer (Co-op)   May 2024 – Aug 2024
Mediashaker   *Edmonton, AB*
- Collaborated with a team to develop a project management system with **AWS** using **Typescript**.
- Implemented **responsive design** for 60% of the features using **React.js** and the **MUI** library, enhancing UI consistency and stability, and improving user experience.
- Developed a customizable form builder feature using **React.js** for the frontend, **Sequelize** for ORM, and **MySQL** for data storage, enabling users to design and embed forms into websites like WordPress.
- Designed a Gantt chart for detailed project timeline and workflow management by integrating a Gantt chart library and resolving backend data synchronization issues using **Node.js** and **RESTful** APIs.
- Integrated a real-time chatting room feature using **Socket.IO**, enhancing team communication and workflow efficiency.

Graduate Teaching Assistant | CMPT 307 Data Structures and Algorithms   Sep 2023 - Apr 2024
Simon Fraser University   *Burnaby, BC*
- Designed detailed rubrics for exams and assignments, boosting grading efficiency and student satisfaction.
- Conducted weekly office hours and provided personalized tutoring to over 140 students, leading to a perfect evaluation score on their end-of-semester evaluation forms.

Full-stack Engineer   Sep 2022 – Dec 2022
University of Alberta   *Edmonton, AB*
- Developed a Course Scheduling System with **React.js** and **Django**, collaborating with 5 software engineers.
- Collaborated within an **Agile framework**, participating in sprint planning and retrospectives for timely delivery.
- Designed a **PostgreSQL** database and migrated extensive data from client, enhancing data management.
- Designed UI tests covering 80% of the features using **Jest** and **Selenium**, ensuring robust and reliable user interfaces.
- Designed and implemented **RESTful** APIs, facilitating the connection between two major systems and improving overall system efficiency.

SELECTED PROJECTS

Smart Expense Tracker | *C#, ASP.NET Core, Angular, EF Core, SQL Server, ML.NET, SignalR*   Jun 2024
- Developed a real-time sharing expense tracker with voice-activated entry for enhanced user convenience.
- Integrated AI to support analytics and automatic expense categorization, reducing unnecessary spending.

Starcraft AI | *C++, BWAPI (Brood War API), Pathfinding, Decision Making, Multithreading, GTest*   Dec 2023
- Developed an AI bot for competition in StarCraft, utilizing C++ and BWAPI for game interactions.
- Integrated pathfinding algorithms to enhance AI bot's navigation and tactical decisions.

Social Distribution Platform | *Python, SQLite, MongoDB, Django, HTML, CSS, JWT*   Apr 2022
- Developed a blog-style social networking platform enabling users to create, share, and interact with others.
- Designed wireframes and conducted in code reviews by providing detailed feedback.

Experiment Tracker | *Java, Android SDK, Firebase, JUnit, Robotium*   Apr 2021
- Developed an Android app for tracking custom experiments using Java and Android SDK.
- Enhanced user experience with streamlined UI/UX and leveraged Firebase for data storage.