

Aaron Gao

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Technical Skills

Programming Languages	Java, Javascript, Typescript, HTML, CSS, C, C#, C++, SQL, Python, Go
Technologies	Asp.NET, Linux, MySQL, MongoDB, Git, Gradle, Data Structures
Frameworks	React.js, Node.js, Next.js Django

Education

Bachelor of Science Major: Computer Science	University of Calgary Sept 2018 – Dec 2023
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Work Experience

Interact Health PRO Lead Software Developer Intern	Aug 2023 – Present Calgary, Canada
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- Designed an intuitive and responsive user interface using HTML, CSS, and C#, ensuring a user-friendly experience for clients interacting with the Medical & Legal Service application
- Led the development of robust back-end functionalities across multiple controllers, leveraging ASP.NET Core, Entity Framework, and C#
- Collaborated closely with front-end developers to ensure seamless integration between the back-end logic and the user interface, enhancing the overall user experience

Tutor Doctor Academic Tutor	Jan 2020 – Present Calgary, Canada
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- Mentored over 20 students grades 7-12, facilitating a deeper understanding of course material
- Empowered students to achieve substantial academic growth, elevating their grades by up to 20% through effective tutoring strategies and personalized support

Projects

Decidr Real-time Collaborative Polling App	Dec 2023 React.js, Express.js, Node.js
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- Designed and implemented RESTful API endpoints in Express.js, facilitating smooth CRUD operations within the user interface. Employed MongoDB to ensure optimized and efficient interactions with the database
- Implemented WebSocket-based real-time broadcasting for dynamic user interactions. Enabled features like voting, option additions, and user connection updates, enhancing user engagement and responsiveness
- Implemented and leveraged React context API, utilizing the UserContext to efficiently manage and share user-related state across components, enhancing the overall structure and maintainability of the application

Pokedex App Pokemon Encyclopedia Website	May 2023 Javascript, Next.js
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- Integrated an API from the PokeAPI server to retrieve the data for all Pokemon
- Implemented a paginated Pokedex app with Next.js and deployed with Vercel attracting 10+ users
- Synchronized EmailJS API to integrate email sending functionality into web application

Hungry Caterpillars Android Arcade Game	Jan 2023 Java, Libgdx
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- Created tmx files using Tiled which are tile maps that can be rendered on to the game using Tmx library
- Implemented dependencies for getting Ad requests from Admob to fund the application
- Deployed to the Google Play Store and facilitated 100+ downloads

Community Involvement

Competitive Programming Club (University of Calgary) VP Student Engagements	Sept 2022 – Present Calgary, Canada
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- Developed and advertised posters, videos, and images through various social media platforms to increase club membership attendance by over 20%
- Liaised with corporate partners for sponsorship opportunities, increasing club investment by over 15%