Daniel Xu

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SKILLS

Languages: C/C++, Java, Python, R, HTML, CSS, Javascript
Frameworks: React, Next.js, Bootstrap, Tailwind CSS, Firebase
Developer Tools: Git, VS Code, PyCharm, IntelliJ, Figma, Eclipse, npm, Google Cloud Platform, Piskel, Github, Data Structures and Algorithms, Object Oriented Programming
Libraries: pandas, Matplotlib, jQuery

EXPERIENCE

Web Developer   November 2022 – Present
Discourse Agency
- Created interactive **Privilege Walk API** using **Next.js** and **Tailwind**, as branch of Discourse Agency Website
- Implemented **Firebase** to store previous user responses in **Realtime Database**, and retrieve data to simulate privilege walk with **10 other users**
- Developed algorithm to recommend **9 different** company services including Inclusionary Education and Crisis Response based on questionnaire responses
- Coordinated meetings with design team to devise layouts and functionality using **Figma**, **Github**, and **Zoom**

Academic Tutor   October 2019 – July 2022
Self-Employed
- Launched tutoring startup to help students ages 5-16 in academic subjects of Math, English, Science and Music
- Promoted service on multiple social media platforms, such as Wechat and Kijiji, acquiring **over 15 students**
- Fostered average **increase of 14%** in students' academic performance in instructed subjects

PROJECTS

CodeMan | *Java*   July 2022 – Present
- Designed and programmed 'Pokémon' inspired 2D game using **Java**, **JPanel**, **JFrame**, and **Graphics2D**
- Created sprites and tiles with **Piskel**, rendered **70x60 tile** world map with **InputStream** and **BufferedReader**
- Optimized frame-to-frame render time to **0.05s** with delta game loop and FPS limiter, using **java.awt**

Expense Tracker | *React, CSS, Javascript*   September 2022 – October 2022
- Built expense tracker web application using **React**, helping users visualize annual expenses by month
- Designed compelling gradient animation border for expense form using **keyframes** in **CSS**
- Implemented expense chart, displaying monthly expenses with **dynamic inline styling** and **React useState**

SIMON | *HTML, CSS, Javascript, jQuery*   May 2022 – June 2022
- Developed 'Simon' inspired memory game with **HTML**, **CSS**, **Javascript**, and **jQuery**
- Integrated **CSS animations** and sound effects with button clicks with **jQuery**

EXTRACURRICULARS AND LEADERSHIP

Executive Committee Member | *Skyky Charity Concert*   May 2021 – August 2021
- Executive Committee Member for **2021 Skyky Charity Concert for SickKids Foundation**
- Raised **$13000** for SickKids Foundation and received letter of commendation from **Justin Trudeau**

Competitive Swimmer   March 2015 – January 2022
- Qualifier for the Ontario Swimming Championship, Ontario Youth Junior Championship, Eastern Nationals, medalist at Provincial AA Swimming Championship and Age Group Internationals

Pianist   July 2007 – Present
- ARCT Performers (RCM) level pianist, Ontario Music Festivals Association Provincial Finalist

EDUCATION

University of Waterloo   Waterloo, ON
Candidate for Bachelor of Computer Science (GPA: 3.92)   *Expected Graduation Date: April 2027*