Cheng Zeng

ASPIRING SOFTWARE DEVELOPER

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Education

University of Waterloo

2024 - 2029

Bachelor of Computer Science

Waterloo, ON

Courses: Algorithm Design & Data Abstraction, Tools & Techniques for Software Development, Object-Oriented Software Development, Logic & Computation

Technical Skills

Languages: JavaScript, Java, Python, TypeScript, C, C#, C++, HTML/CSS, DrRacket, GdScript

Library/Frameworks/Database: Next.js, React, Tailwind CSS, Bootstrap, Node.js, Express.js, MongoDB, MySQL, Vue, Elegle, Diange, Springhout

Flask, Django, Springboot

Tools: Git, GitHub, Vite, Vercel, Heroku, Netlify, AWS, Postman, Figma, Stable Diffusion, ComfyUI, Adobe Suite

Experience

Game Developer - Game Systems Team

May. 2023 - Jan. 2024

The Mathetia

Richmond, BC

- Created a detailed solo Godot game project, developing an intricate narrative with **15,000**+ characters in plot, **50**+ pages of business plans and character designs, resulting in **10,000**+ views on cross-platform marketing accounts.
- Innovated Card Display Algorithms with fully customized content generation using multi-layered tween system to display of 54+ unique cards with adjustable transparency.
- Utilized **configuration files** for efficient dialogue data management, supporting easy **content localization** and theoretically **unlimited dialogue logs**.

Software Engineering Intern - Android App Development Team

Oct. 2022 - May. 2023

Game of Apps

Richmond, BC

- Developed an Android app providing **recycling-related information**, with categorized details for different types of recyclables, improving user understanding of recycling processes by **33**%.
- Implemented a search bar with **Google Maps integration** for users to locate and view **15+** local recycling stations in real time, enhancing the app's UI consistency and information accessibility.
- Built a form validation and submission system to verify user inputs, ensure data accuracy and immediate feedback.

Projects

- № WhatIAM Personal Portfolio Website | React, TailwindCSS, Boostrap, Express.js, Node.js, MongoDB, Vercel
 - Created a personal portfolio and blog website with highly interactive animations, integrated React.js and TailwindCSS for responsive design and a information collection system, which enhances the efficiency of retrieving data by 50%.
 - Dynamically rendered pages based on Express.js and MongoDB, integrated Vercel Blob for static asset storage, and RESTful APIs to support CRUD operations for music tracks, blog articles, and quotes.
- <u> ▼ Timeless Hack the North 2024 Participant</u> | React, TailwindCSS, Flask, JavaScript, Python, MongoDB, Postman
 - Developed an AI-powered app that generates fully personalized audio-visual experiences with cutting-edge AI models such as Cohere, Groq, DALL-E 3, Suno and Luma AI.
 - Used Lucide libraries to enhance visual appeal, Python Flask as the backend, Postman to create RESTful APIs with Axios for robust connection between client and server sides, and MongoDB Atlas for database management.
 - Overcame challenges in multiple AI model pipelines optimization by refining CI/CD workflows and experimenting with prompt engineering to ensure efficient use of resources and accurate results in real-time.

Achievements

University of Waterloo Faculty of Mathematics Entrance Scholarships: - \$2,000 for applicants with 95+ average. Hugh McRoberts Secondary International Scholarship Award: - Worth \$500 in total.

Hugh McRoberts Secondary Grade 12 Top Academic Award: - Among 1,000+ students.

Canadian Senior Mathematics Contest: - Top 3.4% among 13372 applicants.

Canadian Computer Competition Senior: - Top 19.5% among 3947 applicants.