Zhijie Xia

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EDUCATION

University of Calgary, AB

Jul 2019 - Present

Bachelor of Science in Computer Science (Honours)

GPA: 3.94/4.0

EXPERIENCE

University of Calgary - Programmable Reality Lab ✓

April 2022 - Present Calgary, Canada

Mixed Reality Developer & Undergraduate Researcher

- Submitted to ACM CHI 2023 as first author.
- Created Reality Canvas (sponsored by Adobe) a real-time scribble animation authoring tool.
- Research in the area of Mixed Reality(AR/VR).

University of Calgary - Rella Cambian Dream Team

November 2022 - December 2022 Calgary, Canada

Mixed Reality Developer

- Collaborated with the original **Rella Cambian Dream** Team.
- Bring immersive viewing experience to audience by developing AR technologies.

PROJECTS

Reality Canvas April 2022 - Present

Real-time Authoring Tool sponsored by Adobe

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• The system allows users to create scribble animations with ease. Users can draw the animation and apply the animation in real-time.

• The object/body tracking is based on **MediaPipe**, and drawing animation is applied using **OpenCV**.

Your Store Jan 2022 - April 2022

E-Commerce Website

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- An online shopping site. Buyers/Sellers can register on the site and purchase/list products.
- The website's frontend is built by **React**, and the backend is built by **Express** and uses **MongoDB** as the database.

Mini C Compiler Dec 2021 - March 2022

Yet Another C Compiler

Dec 2021 - March 2022

- A compiler takes augmented C source code, outputs MIPS-32 assembly, and runs in a simulator.
- Use Flex&Bison for frontend(lexer, parser) and self-written MIPS-32 assembly code generator as backend.

Other Projects

- DevBlog : My personal blog site written with MERN www.zhijiexia.dev.
- Blockchain: A simplified implementation of Bitcoin Core in Go.

AWARDS

Intl.Undergraduate Award	University of Calgary Scholarship	2020,2022
Owen Family Scholarship	University of Calgary Scholarship	2021
Dean's List	Faculty of Science Dean's List	2020,2022

TECHNICAL SKILLS

Programming languages: C++, C, Go, Rust, Python, Haskell
Web Development: HTML, CSS, JavaScript, Tailwind, BootDevOps: Linux, Git, Bash, Zsh, Docker

strap, React, Express

SOFT SKILLS

Collaboration: Successfully completed multiple team projects, with extensive experience collaborating in a research lab. Proven ability to work well in teams and adapt to different group dynamics. Strong interpersonal and communication skills.

Active Learning: Passion for exploring and learning about new technologies, such as blockchain, machine learning, and mixed reality. Attendance at leading c onferences in the fields of cybersecurity and human-computer interaction, including NDSS, USENIX, IEEE S&P, UIST, and ACM SIGCHI.

Critical Thinking: Proven ability to conduct independent research on emerging technologies, such as blockchain and mixed reality. Strong critical thinking skills, with a track record of using analytical and problem-solving skills to arrive at innovative solutions.

Relevant Coursework

Computer Science: Information Security, Compiler Design, Data Structures and Algorithms, Databases, Operating Systems, Computer Networks, Software Engineering

Mathematics: Optimization, Discrete Maths, Probability Theory, Number Theory, Linear Algebra, Advanced Calculus