

Kenny Zhao

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EXPERIENCE

Project Manager

McMaster Interdisciplinary Satellite Team, Satellite Manufacturer

04/2024 – present
Hamilton, Canada

- Contribute to documentation efforts and provide software support across various project phases, demonstrating versatility and commitment to advancing both managerial and technical aspects of satellite development
- Aid in developing standardized processes and templates for the systems team, enhancing project efficiency by 30% and ensuring alignment with the Canadian Space Agency's requirements
- Spearhead budget tracking and management of around \$350,000 for developing a satellite for space launch, ensuring efficient allocation of resources and adherence to financial targets

Teaching Assistant

McMaster University, Public Research Institution

09/2024 – present
Hamilton, Canada

- Supported the instruction of tutorials for COMPSCI 2GA3 - Computer Architecture, mentoring students on advanced topics like logic gates, computer arithmetic, and assembly programming to deepen their grasp of foundational computer architecture concepts
- Provided one-on-one support to students, clarifying concepts related to instruction-set architecture, datapath and control, and pipelining, which improved student test scores by 25%

Software Research Development Specialist Intern

McMaster University, Public Research Institution

05/2024 – 08/2024
Hamilton, Canada

- Led software development efforts as a Software Research Development Specialist at the McMaster Interdisciplinary Satellite Team, overseeing the creation of Mission and Operations Control Software for the team's CubeSat project, PRESET
- Engineered a robust Dashboard for the team's HASP 2024 test integration and flight in Texas, facilitating communication with the satellite for enhanced data visualization and transmission resulting in a 30% increase in data accessibility and efficiency

EDUCATION

Honours Bachelor of Applied Science in Computer Science

McMaster University, CGPA 3.7/4.0

09/2022 – present
Hamilton, Canada

Activities: Year Representative at McMaster Computer Science Society

PROJECTS

Nos Album - Unveiling My Journey and Passions

ReactJs, TypeScript, React Native, NodeJs, Git, Mobile Development

01/2024 – 01/2024

- Teamed with 2 others at the UofTHacks XI hackathon to develop an inventive photo album app, enabling users to effortlessly revisit their past photos with a simple click
- Utilized NodeJs, TypeScript, React Native, and ReactJs to integrate Google Maps API for geotag analysis, creating a unique spatial exploration feature

HealthChain - Revolutionizing the Future of Digital Healthcare with Blockchain

ReactJs, GatsbyJs, NodeJs, HTML, CSS, JavaScript, Verbwire, NodeJs, Git

01/2023 – 01/2023

- Worked collaboratively in a team of four at the DeltaHacks IX hackathon to create a blockchain-based healthcare record storage website, enhancing the security of medical data storage achieving recognition for "Most Creative Use of Verbwire API"
- Implemented the Verbwire API for publishing files onto IPFS, subsequently storing it securely on the blockchain ensuring data integrity

heAR - Augmented Reality and NLP for Enhanced Communication

Python, Flask, Co:here, AR, Heroku, C#, Unity, Git, AI, NLP

09/2022 – 09/2022

- Collaborated within a 4-person team at the Hack The North 2022 hackathon, to develop an augmented reality Natural Language Processing (NLP) application capable of real-time speech summarization
- Utilized Python, Flask, and Heroku to seamlessly integrate our Unity code with Co:here's API, enabling the processing and summarization of speech

SKILLS

- Languages: R, C/C++, JavaScript, HTML, CSS, Python, Java, Bash
- Frameworks/Software: SQL, NumPy, ReactJs, GatsbyJs, NextJs, Git, Unix, Slack, Github, Excel, Flask
- Proficient Languages: English, French