

Randy Ren

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TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS, TypeScript, L^AT_EX, System Verilog
Tools: Jira, Confluence, GitHub, Fusion360, Google Cloud Platform, Figma, Blender, Microsoft Office Suite
Hardware: NVIDIA Jetson Orin, Raspberry Pi, Arduino, DE1-SoC

EXPERIENCE

Project Management Intern

May 2025 – Present

Ledcor

Vancouver, BC

- Coordinated **Quality Assurance** workflows by scheduling tests, monitoring field inspections, and maintaining project delivery documentation across **hundreds of fiber optic installation sites**
- Provided technical and administrative support to superintendents, design engineers, and build partners, ensuring consistent communication and documentation flow
- Worked across all **Ledcor Technical Services** teams, providing cross-functional support in roles across project coordination and data analysis contributing to the exploration of **machine learning** and **AI** applications in construction workflows

Software Engineering Intern

May 2024 – August 2024

Visa

San Francisco, CA

- Involved in the full software development life cycle from analysis, quality assurance, security, and deployment, contributing to a **10%** reduction in deployment time
- Utilized object-oriented languages such as **Java**, **Python**, and **C++** to develop an API for payment processing and microservices
- Participated in agile development methods, with a strong emphasis on continuous integration and deployment through automated frameworks such as **JUnit** and **Mockito** for **Java** applications

Software/Electrical Team

September 2024 – Present

UBC Rover

Vancouver, BC

- Led the development of the computer vision system using frameworks such as **OpenAI CLIP** for image and object detection, achieving **95%** accuracy across various terrains
- Developed a prompt-driven control system for a **5-DOF robotic arm**, utilizing **PyTorch** for machine learning-based object retrieval

PROJECTS

JIRA Audit Automation Tool | Ledcor Internal

- Built a **Python** application integrating with the **JIRA REST API** to automate retrieval and processing of tickets, drawings, assignees, and attachments
- Enabled external approval/rejection of audits via custom UI, reducing manual overhead and improving workflow efficiency by over **15%**

Facial Recognition System | GitHub

- Developed a facial recognition system using **Python** and **OpenCV** for real-time image and video processing
- Implemented a facial recognition library for robust face detection and recognition, achieving **95%** accuracy in facial identification

Personal Portfolio Website | GitHub |

- Designed and developed a fully responsive portfolio site using **Next.js**, **Tailwind CSS**, and **Framer Motion** to showcase projects, resume, and contact information
- Implemented **React** components for dynamic content sections and optimized layout for mobile and desktop breakpoints following UI/UX best practices

EDUCATION

University of British Columbia

Bachelor of Applied Science in Electrical Engineering w/ co-op

Vancouver, BC

Sep. 2023 – Apr. 2028