

# Lucas Chen

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## TECHNICAL SKILLS

**Languages:** Python, Java, C/C++

**Automation & Testing:** Jenkins pipelines, Pexpect, Selenium

**Version Control:** Git workflows, Bitbucket, Gerrit

**Tools:** JIRA, Confluence, Slack, Linux/Unix Environment

**French Fluency:** DELF B2 and French Immersion Gr (4-12)

## CORE COMPETENCIES

**Collaboration:** Worked closely with engineers to integrate features, review code, and improve processes

**Quality Assurance:** Developed automation and system-level validation to improve reliability and reduce regression

**Adaptability:** Quickly learned new tools and frameworks in fast-paced environments

**Communication:** Authored technical documentation and explained complex concepts in work and coaching settings

**Initiative:** Took ownership of automation tasks, building tools that supported more efficient debugging and validation

**Time Management:** Balanced internships, academics, athletics, and coaching with consistent results

## EXPERIENCE

### Ciena Corporation, Photonics Software Team

Summers 2024 & 2025

*Embedded Software Development Internship*

- Built a **Jenkins** pipeline to monitor system health, analyze alarms and logs, and diagnose potential issues.
- Developed **Python** scripts for OADM and optical transport systems, streamlining designer load submissions and minimizing regression risk.
- Created a system-level sanity test that automatically detected alarms and functional issues during load upgrades.
- Contributed to a **Git**-based workflow, reviewing pull requests and ensuring code quality through peer collaboration.
- Documented workflows and automation tools on **Confluence** to improve scalability and onboarding efficiency.

### Team Panorama, Panorama Mountain Resort

Sept. 2024 – Apr. 2025

*Ski Racing Coach*

- Coached 10 athletes (ages 8–9), leading structured training sessions tailored to technical progression.
- Designed and set up race courses to reinforce precision, discipline, and technique.

### Winsport, Canada Olympic Park

Jun. 2023 – Aug. 2023

*Mountain Bike Instructor*

- Led groups of 10 campers and delivered week-long lesson plans for beginner and intermediate riders.
- Taught fundamentals of bike handling, braking, and safety through clear instruction and hands-on coaching.

## PROJECTS

### Imposter Game

- Developed a multiplayer web game with hidden roles, secret reveals, and interactive UI using HTML, CSS, and JavaScript

## EDUCATION

### University of Waterloo – Waterloo, ON

*BASc Candidate in Computer Engineering, President's Scholarship*

- Relevant Courses: Fundamentals of Programming, Linear Algebra (Eng), Calculus 1 (Eng), Classical Mechanics.
- Alexander Rutherford and President's Scholarship Recipient.

## EXTRA-CURRICULAR ACTIVITIES AND INTERESTS

**FIS Alpine Ski Racing, Team Panorama (2013-2024):** Competed in high-level ski racing, demonstrating discipline, resilience, and sustained performance.

**Royal Conservatory of Music (2014-2023):** Achieved Piano Grade 10 and Grade 8 Theory, reflecting dedication and mastery of complex material.