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 Rutherfurd 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.