

# Elliott Schmechel

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## EDUCATION

### Langara College

*Associates of Science in Computer Science*

Vancouver, BC

Sep. 2024 – Present

## EXPERIENCE

### IT Intern

*Langara College French Club*

May 2025 – Present

*Vancouver, BC*

- Managed and updated the club's website frontend, improving usability and access to event information
- Configured and maintained IT systems, including email forwarding, mailing lists, and shared Office 365 tools
- Built and maintained Excel-based forms and feedback workflows to streamline event registration and member surveys
- Provided general technical support to executive members, improving response time to student inquiries

### AI Red Teamer

*Data Annotation*

Nov. 2024 – Present

*Remote*

- Probed large language models with adversarial prompts to uncover vulnerabilities, harmful outputs, and policy gaps
- Documented and reported 25+ issues, including 25% classified as critical, enabling researchers to prioritize fixes
- Annotated and categorized model responses for bias, safety, and alignment evaluation
- Collaborated with researchers to refine red-teaming guidelines and improve model safety coverage

### Game Tester

*Riot Games*

Aug. 2024 – Present

*Remote*

- Executed and documented structured test cases across multiple game builds, identifying, and reporting 5+ critical defects prior to release
- Collaborated with developers and designers to validate bug fixes, regression test new features, and ensure consistent gameplay
- Stress-tested multiplayer features under high-load scenarios, uncovering bottlenecks that improved game stability for 100k+ concurrent players

## PROJECTS

### 20 Games Challenge Site | *React, Tailwind CSS, Astro, Cloudflare Pages*

Jun. 2025 – Present

- Optimized critical HTML payload to < 14Kb (fits in a single TCP round trip), reducing overall site weight by 25MB compared to typical implementations
- Reduced First Contentful Paint metrics from 2.8s → 0.8s utilizing Astro Island pre-loading
- Introduced WCAG guidelines achieving full accessibility compliance with a 100/100 score on Google Search Engine Audit
- Developed reusable component frameworks leveraging React and Tailwind CSS prioritizing cross-site compatibility

### Langara Course Scheduler | *Express, Mongoose, Redis, Cheerio, Axios, Git*

May 2025 – Present

- Reduced average query latency by 85% by introducing a Redis caching layer for repeated course lookups
- Engineered a high-throughput web-scraping API (Cheerio + Axios) capable of ingesting 850+ course objects in under 1s
- Improved system reliability with client-server retry logic and fallback strategies, achieving 99.9% request success rate
- Designed and deployed MongoDB data models with Mongoose, supporting efficient queries across dynamic course schedules

## TECHNICAL SKILLS

**Languages:** Python, Bash, JavaScript, HTML/CSS, Typescript

**Frameworks:** React, Next.js, Astro, Tailwind CSS

**Developer Tools:** Git, Docker, Cloudflare Workers, Excel

**Libraries:** Pandas, NumPy, Express