



# Eric Peng

✉ ericpeng21@gmail.com    🔗 <https://github.com/ericp2121>     [linkedin.com/in/eric-peng-](https://github.com/ericp2121)  
 <https://ericp2121.github.io/my-page-react/>

## TECHNICAL SKILLS

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**Languages & Frameworks:** Java, Python, JS, TS, Playwright, Spring Boot, Django, React, Nightwatch.js

**Tools & Platforms:** Git (Gerrit, GitHub, Bitbucket), Make, Postman, TeamCity

**Databases:** SQL, SQLite, MongoDB

**Cloud Platforms:** AWS, Microsoft Azure

## PROFESSIONAL EXPERIENCE

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### QA Automation Developer

May 2025 – Dec 2025 | Ottawa, ON

*Ciena*

- Developed web automation scripts and test cases using **TypeScript**, **Playwright**, and **TeamCity**.
- Built comprehensive **Postman** test suites to validate **REST API** endpoints, integrated with **TeamCity**.
- Executed **prompt-engineering** tests on Ciena's proprietary AI systems to optimize model behavior and output precision.
- Recognized by Ciena leadership for **exceptional teamwork** and **agility** on Audit UI/Backend/QA projects.

### Full-Stack Developer (Automation Tools and Standards)

Sep 2024 – Apr 2025 | Ottawa, ON

*Ericsson*

- Developed and maintained web platforms using **Python**, **Django**, **Selenium**, **Beautiful Soup**, and **SQLite** for telecommunications regulations and standards.
- Integrated **AI-driven** optimization strategies into web scrapers using **GPT-4o**.
- Built secure login systems using **JavaScript** and **Python Cryptography**, enhancing data protection.
- Maintained and upgraded **Windows** and **Linux** servers, reducing latency and improving infrastructure reliability.
- Wrote extensive technical documentation in **SharePoint** and **Confluence**.

### Web Development Student

May 2024 – Aug 2024 | Ottawa, ON

*University of Ottawa*

- Designed and developed a professional website using **React**.

### Automation Developer

Sep 2023 – Dec 2023 | Gatineau, QC

*Global Affairs Canada*

- Migrated **Java** test cases to **Nightwatch.js** and verified **SQL database** integrity.

### Software Developer

May 2022 – Aug 2022 | Gatineau, QC

*Employment and Social Development Canada*

- Created **JUnit test cases** with **Mockito** and optimized **Spring Boot** web integration tests.

## PROJECTS

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### Engineering Capstone: Autonomous Snowplow Robot

- **Snow detection AI:** Designed an AI model using **Python** and **OpenCV** to detect snowfall for rover guidance.
- **Object avoidance:** Developed **Python-based** systems enabling the rover to autonomously avoid obstacles.
- **Controller UI:** Built a comprehensive UI-controlled platform using **React** and **Python**, integrating real-time weather **API data**.
- **Rate My Co-op Website:** Developed a platform to review internships with a **React** and **Material-UI** front end, and a **Java Spring Boot** back end with **SQL**, hosted on **Microsoft Azure**.
- **Car rental Android app:** Developed a **Java-based Android** car rental app with a **Firebase** backend.

## EDUCATION

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### BASc. in Computer Engineering

Sep 2020 – Dec 2025

*University of Ottawa*

- Held leadership and organizational roles in the **Engineering Student Society** and the **English Debate Society**.