

# Eric Peng

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## TECHNICAL SKILLS

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**Languages & Frameworks:** Java, Python, JavaScript, TypeScript, Spring Boot, Django, React, Nightwatch.js

**Tools & Platforms:** Git (Gerrit, GitHub, Bitbucket), Make, Playwright, 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 **Playwright** with **TypeScript** and **TeamCity**, catching critical UI and backend bugs, **reducing error rates by up to 15%**
- Designed and executed comprehensive **Postman test suites** using **JSON collections** and Makefile organization to **validate REST API endpoints and backend functionality**
- Analyzed network performance with **Playwright** and **Postman**, identifying bottlenecks and implementing optimizations that **reduced response times by up to 10%**

### Standards & Industry Automation Developer

Sep 2024 – Apr 2025 | Ottawa, ON

*Ericsson*

- Developed automated web scraping solutions using **Python**, **Django**, **Selenium**, **Beautiful Soup**, and **SQLite** for telecommunications regulatory websites, ensuring Ericsson's compliance with legal standards
- Integrated AI-driven optimization strategies into web scrapers using
- Built secure login systems using **JavaScript** and **Python Cryptography**, enhancing data protection
- Maintained and upgraded **Windows Server 2012 to 2016** and **Linux servers**, **reducing server latency** and improving infrastructure reliability
- Wrote extensive technical documentation on **SharePoint** and **Confluence** pages

### Web Maintenance Student

May 2024 – Aug 2024 | Ottawa, ON

*University of Ottawa*

- Designed and developed a professional website for Prof. Elke Winter using **WordPress** and **HTML**

### Automation Developer

Sep 2023 – Dec 2023 | Gatineau, QC

*Global Affairs Canada*

- Migrated **Java** test cases into **Nightwatch.js** for the NEICS project, also verifying **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

## PROJECTS

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- Engineering Capstone: Autonomous Snowplow Robot**
  - Snow detection AI:** Designed an AI model in **Python OpenCV** to detect snowfall for rover guidance, with 85% accuracy and 500 ms response time
  - Object avoidance:** Developed systems in **Python** to allow rover to autonomously avoid obstacles.
- Rate My Co-op Website:** Developed a platform to review internships; with **React** and **Material-UI** front-end, and **Java**, **Spring Boot** back-end with **SQL**, hosted on **MS Azure**.
- Car rental Android app:** Developed a **Java-based** android car rental app, with **Firebase** backend

## EDUCATION

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### BASc. in Computer Engineering

Sep 2020 – Dec 2025

*University of Ottawa*