

# Eric Peng

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## SKILLS

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- Backend: Java, Python, C, C++, Spring Boot, Flask
- Frontend: HTML, CSS, JavaScript, React, Node.js
- Digital design: Verilog, VHDL
- Tools: Git, Gerrit, AWS, MS Azure, Insomnia, Maven, Docker, Selenium, Puppeteer, SQL, SQLite

## PROFESSIONAL EXPERIENCE

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### Standards & Industry Automation Developer

Sep 2024 – Dec 2024

*Ericsson*

- Developed automated web scraping solutions for telecommunications regulatory websites using **Python**, **Django**, **Selenium**, and **Beautiful Soup**, optimizing data extraction processes.
- Designed and implemented **SQLite** databases for efficient management and storage of scraped data, including automated exporting to CSV for further analysis.
- Explored **AI-driven** optimization strategies for web scraping automation using **ChatGPT** and Ericsson's internal AI systems.

### Web Maintenance Student

May 2024 – Aug 2024

*University of Ottawa*

- Designed and developed a professional website using **WordPress** and **HTML** for Prof. Elke Winter.
- Authored comprehensive documentation for ongoing website maintenance and updates.

### Automation Developer

Sep 2023 – Dec 2023

*Global Affairs Canada*

- Created and executed test cases using **Nightwatch.js** for the New Export Import Control System (NEICS) project.
- Updated test cases, migrating **Java** test cases into **Nightwatch.js**, **decreasing test runtime by up to 55%**
- Ensured seamless synchronization between NEICS webpage content and **SQL database** content.

### Software Developer

Jan 2023 – Apr 2023

*Sec Dev*

- Developed TikTok web-scraping programs with **Python Flask** and **Selenium**.
- Intercepted and processed TikTok JSON data using **Python Flask** and a **JavaScript**-based Chrome extension.
- Automated web-scraping extension testing using Node.js Puppeteer, **increasing coverage by 35%**.

### Software Developer

May 2022 – Aug 2022

*Employment and Social Development Canada*

- Created **Junit** test cases with **Mockito** for the Benefits Delivery Modernization (BDM) project.
- Optimized **Spring Boot** application run times, **reducing runtime by up to 25%**.

## PROJECTS

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### Rate My Co-op Website

- Created a website for students to rate their co-op work placements. Front-end was built using **Material.UI** and other **React** libraries.
- Back-end support was building using **Java Spring Boot**, with **SQL** database integration based in **Azure**.

## EDUCATION

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### BASc. in Computer Engineering

Sep 2020 – Dec 2024

*University of Ottawa*