

# Chun Him Ho (Nicholas)

Toronto, Canada

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## SUMMARY

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Software Developer with 3+ years of experience in Python and Java, specializing in automation, RESTful API development, and data-driven backend systems. Experienced in building scalable applications using Spring Boot and FastAPI, implementing secure authentication with JWT and RBAC, and developing web scraping pipelines to automate data extraction and processing. Skilled in integrating AI-powered workflows to improve data consistency, reduce manual processes, and enhance system reliability.

## TECHNICAL SKILLS

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**Programming Languages:** Python, Java, JavaScript, TypeScript, SQL, Shell Scripting

**Frameworks & Libraries:** Spring Boot, FastAPI, ExpressJS, React, Selenium, Django, Hibernate

**Backend & API Development:** RESTful API Design, JWT Authentication, Role-Based Access Control (RBAC), Secure API Development

**Automation & Data Processing:** Web Scraping, Data Extraction, Data Normalization, Automation Pipelines

**AI & LLM Integration:** LLM-Powered Automation, Local LLM Hosting (Ollama)

**Tools & Platforms:** Linux, Docker, Git, GitHub, Postman, Agile, Jira

## WORK EXPERIENCE

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### Junior IT Technician | Technethon

May 2024 – Present

*Provided infrastructure support for 10+ clients across healthcare, manufacturing, and property management. Implemented security measures to enhance operational efficiency and cybersecurity.*

- Developed automation scripts and tooling to support infrastructure configuration and deployment consistency.
- Assisted in designing security-aware system layouts and role-based access control models.
- Contributed to internal documentation and operational tooling improvements.

### Contract Developer | FutureSight Inc. (Toronto, Canada)

Mar 2024 – May 2024

*Developed AI-powered tools to analyze client growth and enhance marketing research. Built a web scraping system using GPT-4 and improved automation for data processing.*

- Developed Python-based automation tools to support competitive intelligence and marketing research.
- Built automated web scraping and data processing pipelines integrated with backend systems via RESTful APIs.
- Implemented LLM-powered summarization workflows to automate data analysis and reporting.
- Collaborated in Agile sprints to deliver features and maintain technical documentation.

### Software Developer | Lively Impact Technology Limited

Aug 2022 – May 2024

*Developed solutions for government clients, including web scraping automation, API security, large-scale data processing, and real-time analytics.*

- Collaborated with the **government** to develop a web scraping tool using Selenium that **automated** scraping of over **50 websites** about **problematic food recalls**, **eliminating 3 hours of manual data collection** per day for the team.
- Designed and executed **comprehensive RESTful API Specifications and User Acceptance Testing (UAT) plans**, ensuring the product aligns the client requirements.
- Implemented **JWT authentication** to secure API endpoints and prevent vulnerabilities.
- Built a **social tracking system** with **sentiment analysis & dynamic dashboards** using **React and Spring Boot with Java 8+**, allowing clients to **monitor brand reputation in real-time**.
- Developed backend applications using Spring Boot to support data ingestion and processing workflows.

- **Automated backend workflows** using Shell Scripting on Unix servers, **reducing manual workload** and optimizing data ingestion pipelines.

## PROJECTS

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### PriceMatchAPI | A price comparison across multiple stores from the weekly flyers

- Developed a price-tracking backend using FastAPI to manage products, stores, and historical pricing data.
- Built automated web crawlers using Python and Selenium to extract pricing data from weekly flyers and retailer websites.
- Integrated a locally hosted LLM (Ollama) to normalize product names across different data sources.

## EDUCATION

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### Bachelor of Engineering (Computer Engineering) | The University of Hong Kong

Sep 2018 – Jul 2023

- Minor in Mathematics