

# Param Shah

+1 226 201 7007 | [p7shah@uwaterloo.ca](mailto:p7shah@uwaterloo.ca) | [linkedin.com/in/param-shah-param007](https://linkedin.com/in/param-shah-param007) | [github.com/paramshah07](https://github.com/paramshah07)

## EDUCATION

<b>University of Waterloo</b> <i>Bachelor of Honours Mathematics</i> <i>Joint Honours Statistics and Computing</i>	Waterloo, Canada
	Sep 2022 – May 2027

• **Relevant Courses:** Object-Oriented Programming, Data Structures and Algorithms, Machine Learning, Portfolio Optimization Models, Derivatives, Stochastic Processes, Database Systems, and Linear Algebra.

## EXPERIENCE

<b>Software Engineer Intern</b> <i>Causeway Capital Management LLC</i>	May 2025 – Aug 2025 Dallas, TX
• Built a scalable performance analytics backend in Python + SQL (factor/sector/security breakdowns, drill-downs, CSV/Excel exports) designed for downstream quant/ML signal consumption, enabling PM workflows across quant + fundamental strategies and cutting decision latency 60%.	
• Architected an in-house orchestration platform using Airflow + FastAPI that unifies AI automation workflows and ML model dashboards, cutting deployment time by 60% and giving real-time visibility into production pipelines.	
• Built ex-post performance analytics and ex-ante risk metrics into the internal PM portal, delivering real-time alpha attribution, tracking-error, and information-ratio dashboards that accelerated investment decisions.	
<b>President - Quantitative Research</b> <i>UW Stocks Club</i>	Jan 2024 – Present Waterloo, Canada
• Led a 25-member team to launch an open-source Python toolkit for event-driven algo trading with modular broker adapters, real-time risk analytics, and plug-and-play strategy templates (Fama-French 5, Black-Litterman, SMA).	
• Architected a Streamlit back-testing framework with tick-level rewind, walk-forward optimization, and portfolio dashboards, cutting validation cycles by 90% and becoming the club's go-to engine for rapid strategy testing.	
<b>Software Engineer Intern</b> <i>Siemens Healthineers</i>	Jan 2025 – Apr 2025 Ottawa, Canada
• Architected a cloud-based CI/CD pipeline leveraging AWS (EC2, S3, CodeBuild), Jenkins, Docker, and Kubernetes, reducing build and deployment times by 65% and accelerating release cycles by 40%.	
• Integrated advanced Android Debug Bridge (ADB) workflows, including real-time log capturing, crash diagnosis, and automated device provisioning, reducing mobile testing turnaround by 50%.	
<b>QA Automation Engineer Intern</b> <i>Axonify Inc</i>	May 2024 – Aug 2024 Waterloo, Canada
• Streamlined automated testing workflows by deploying test environments with Docker and Kubernetes, reducing environment setup time by 35% and ensuring consistency across multiple test environments.	
• Automated over 100 manual test cases using Selenium, reducing manual testing efforts by 60%.	
<b>Technical Analyst Intern</b> <i>Techtronic Industries</i>	Sep 2023 – Dec 2023 Toronto, Canada
• Developed an automation script for imaging new-hire laptops, resulting in 63% reduction in the time required.	
• Developed a robust data and reporting system using Python, Tableau, and SQL, providing insights into product analytics, marketing funnels, and essential KPIs, benefiting the marketing, supply chain, and brand teams.	

## PROJECTS

<b>Skopeo AI</b> ↗	Aug 2025 – Present
• AI native spreadsheet engine. Open source spreadsheet platform with agentic AI for formulas, data cleaning, and analysis; delivering real-time, multi-user collaboration.	
<b>Algorithmic Trading Library</b> ↗	Jan 2025 – Present
• Python library that equips quants with modular trading tools, deep analytics, and plug-and-play templates—including Fama-French 5-Factor and Black-Litterman models—for rapid strategy deployment.	

## TECHNICAL SKILLS

<b>Languages:</b> Python, Java, C/C++, SQL , JavaScript, HTML/CSS, R
<b>Frameworks:</b> Flask, Django, FastAPI, PyTorch, Keras, PyQL, TA-Lib, Scikit-learn, Node.js
<b>Tools/Platforms:</b> Git, Airflow, Docker, Kubernetes, Azure, Jupyter Notebooks, Jenkins, Bruno/Postman, MongoDB