

Param Shah

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EDUCATION

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

- **Relevant Courses:** Portfolio Optimization Models, Derivatives, Stochastic Processes, Machine Learning, Database Systems, Numerical Computation, Linear Algebra, and Object-Oriented Programming

EXPERIENCE

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| Software Engineer Intern <i>Causeway Capital Management LLC</i> | May 2025 – Aug 2025 Dallas, TX |
| <ul style="list-style-type: none">• 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. | |
| President - Quantitative Research <i>UW Stocks Club</i> | Jan 2024 – Present Waterloo, Canada |
| <ul style="list-style-type: none">• 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. | |
| Software Engineer Intern <i>Siemens Healthineers</i> | Jan 2025 – Apr 2025 Ottawa, Canada |
| <ul style="list-style-type: none">• 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%. | |
| QA Automation Engineer Intern <i>Axonify Inc</i> | May 2024 – Aug 2024 Waterloo, Canada |
| <ul style="list-style-type: none">• 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%. | |
| Technical Analyst Intern <i>Techtronic Industries</i> | Sep 2023 – Dec 2023 Toronto, Canada |
| <ul style="list-style-type: none">• 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

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| Algorithmic Trading Library ↗ | Jan 2025 – Present |
| <ul style="list-style-type: none">• 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. | |
| Skopeo AI ↗ | Aug 2025 – Present |
| <ul style="list-style-type: none">• AI native spreadsheet engine. Open source spreadsheet platform with agentic AI for formulas, data cleaning, and analysis; delivering real-time, multi-user collaboration. | |

TECHNICAL SKILLS

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