

Param Shah

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EDUCATION

University of Waterloo

Honours Bachelor of Mathematics

Joint Honours Statistics and Computing

Waterloo, Canada

Sep 2022 – June 2027

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

EXPERIENCE

Software Engineering - Applied AI Intern

Skopeo AI

Sept 2025 – Present

San Francisco, California

- AI native spreadsheet engine. Open source spreadsheet platform with agentic AI for formulas, data cleaning, and analysis, delivering real-time, multi-user collaboration.
- Built a RAG Context Engine that embeds and indexes workbook structure (schemas, named ranges, formula tokens) in a vector DB (FAISS/pgvector) using sentence-transformers and LlamaIndex with hybrid retrieval + re-ranking and tiktoken budgeting to deliver high-signal context to the Planner and reduce invalid references.

Software Engineer Intern

Causeway Capital Management LLC

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.

Software Engineer Intern

Siemens Healthineers

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%.

QA Automation Engineer Intern

Axonify Inc

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%.

Technical Analyst Intern

Techtronic Industries

Sept 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

Algorithmic Trading Library ↗

Jan 2025 – Present

Blurr ↗

Sept 2025

TECHNICAL SKILLS

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, AWS, Jupyter Notebooks, Jenkins, Bruno/Postman, MongoDB