

Jalol Satimov

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EDUCATION

University of Waterloo

Bachelor of Mathematics, Computational Mathematics and Statistics

Waterloo, ON

2025 – 2029

PROFESSIONAL EXPERIENCE

Software Developer Intern

TradExim (e-tradeFTZ)

Remote

April 2026 – Present

- Rebuilt 15+ public-facing pages, including homepage, sector, platform, and contact flows, in HTML, CSS, and JavaScript to replace the legacy site.
- Built contact form email delivery using Resend and Formsubmit, routing production submissions to inquiry inboxes.
- Redesigned the account-creation flow to route users to correct registration, reducing duplicate accounts.
- Managed production deployment through Rebel hosting, including DNS configuration and Google Search Console verification, shipping 5-7 production updates weekly.

TECHNICAL EXPERIENCE

Autonomous Systems Developer

WATonomous

Waterloo, ON

May 2026 – Present

- Built a ROS2/C++ navigation pipeline with LiDAR-based costmap generation, global map memory, A* planning, and velocity control for a simulated robot.
- Developed occupancy-grid logic converting LaserScan data into obstacle-aware costmaps, maintaining a persistent map for real-time replanning.
- Tuned planner and controller behavior to improve obstacle clearance, waypoint tracking, and goal navigation.

Robotics Software Engineer

Waterloo Aerial Robotics Group (WARG)

Waterloo, ON

Dec. 2025 – April 2026

- Built and debugged an OpenCV HSV-based color detection algorithm, tuning thresholds for reliable segmentation and verifying with an automated test suite.
- Implemented a multiprocessing MAVLink ground-station pipeline in Python for concurrent heartbeat, telemetry, and command messaging.

TECHNICAL SKILLS

Programming Languages: Python, TypeScript, JavaScript, C/C++, Java, SQL, Racket, LaTeX

Tools & Frameworks: React, Next.js, FastAPI, Node.js, PostgreSQL, SQLite, MongoDB, NumPy, pandas, OpenCV, Docker, Git/GitHub, Linux/Unix, AWS, Vercel, Firebase, GitHub Actions

PROJECTS

StepNote: AI Notetaking App | *Swift, Firebase, Supabase*

[App Store](#)

- Built and published an iPadOS AI tutoring app delivering step-by-step feedback on student work.
- Created a backend split across Firebase for user data and auth, Supabase for image storage, and Cloudflare Workers for serverless API logic, with tier-based access control across Free, Standard, and Pro plans.

AI Mock Interview Platform | *Python, PostgreSQL, Auth0*

[Source](#)

- Built an AI mock interview platform that extracts upcoming interview details from user email and generates tailored, role-specific preparation interviews.
- Developed camera-based response analysis, weak-moment clip detection, and performance scoring via Gemini API.

Market Sentiment Data Pipeline | *Python, SQL*

[Source](#)

- Built a Python ETL pipeline using Reddit API to scan 11 subreddits and process 1,500+ posts per run for ticker mentions and bull/bear sentiment, storing results in SQL database.
- Built a growth table using captured time/price snapshots and live yfinance data to compute percentage change.

ACHIEVEMENTS

Awards: President's Distinction Award (\$2,000), Undergraduate Research Entrance Award (\$1,500)

Certificates: University of Waterloo – Problem Solving Course (Summer 2024)