

ALI RAZEGHI

Python Developer | Data Analysis · Automation · BI Reporting

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PROFESSIONAL SUMMARY

Python developer with 20+ years across software engineering, IT operations, and scientific computing. Builds data-analysis, automation, and BI-reporting solutions with pandas, NumPy, SciPy, and matplotlib, turning raw data into structured, decision-ready output. Comfortable owning a problem end-to-end: data ingestion, processing, visualization, and automated delivery, with clean, testable, well-documented code. Seeking Python development, data analysis, or automation roles in the Greater Toronto Area.

TECHNICAL SKILLS

Languages & Libraries	Python (pandas, NumPy, SciPy, matplotlib, ReportLab), JavaScript, HTML, CSS
Data & Analytics	Data wrangling, time-series analysis, KPI & BI reporting, data visualization, statistical methods (Lomb-Scargle, FFT)
Automation	n8n workflow automation, scheduled reporting, SMTP/email pipelines, REST API integration
Engineering Practice	Git & GitHub, modular design, logging, error handling & retry logic, CLI tooling, automated reporting (PDF/HTML)

SELECTED PROJECTS (github.com/Ali-Razeghi)

Daily Sales Briefing: Automated BI system that converts raw sales data into structured PDF reports delivered by email. Multi-format data ingestion, daily KPI computation, z-score anomaly/threshold alerting, trend analysis, and SMTP delivery with retry logic. Python, pandas, matplotlib, ReportLab.

NASA Exoplanet Aitoff Map: Python pipeline that fetches live data from the NASA Exoplanet Archive and visualizes thousands of confirmed exoplanets on an Aitoff sky projection, colour-coded by detection method.

Variable Star Light-Curve Analyzer: CLI tool implementing Lomb-Scargle period detection (with FFT fallback) on astronomical time-series data; generates publication-quality plots and automated HTML reports.

n8n Automation Workflows: Booking/reminder systems and an AI-powered Google Reviews management workflow for small businesses (Google Places API, sentiment classification, alerting, and Google Sheets logging).

Exoplanet Transit Simulator & Habitable Zone Visualizer: Interactive modeling of planetary transit light curves and identification of small planets located within habitable zones, using NASA Exoplanet Archive data.

FlowPilot: SaaS-style analytics landing page with an interactive UI and JSON-powered dashboard, built in vanilla JavaScript.

PROFESSIONAL EXPERIENCE

Independent Python Developer - Self-Employed *Newmarket, ON* Jan 2025 – Present

- Design and ship Python tools for data analysis, automation, BI reporting, and scientific computing; portfolio published open-source on GitHub.
- Build n8n automation workflows for Canadian small businesses (booking/reminders, AI-assisted review management).
- Produce automated reporting pipelines (PDF/HTML) with KPI computation, anomaly detection, and email delivery.

Operations Support - Magna International *Aurora, ON* Oct 2025 – Jan 2026

- Supported operations in a fast-paced manufacturing environment requiring precision, reliability, and cross-functional coordination, while continuing parallel Python development.

Production Associate - TS Tech Canada Inc. *Newmarket, ON* Jun 2025 – Sep 2025

- Supported high-volume operational workflows with strong attention to quality, consistency, and teamwork under production pressure.

Sales Associate - Leon's Furniture *Newmarket, ON* Aug 2024 – Jan 2025

- Delivered customer-facing service at one of Canada's largest furniture retailers; strengthened communication and the ability to explain complex information clearly.

IT Operations & Software Roles - Pars Khazar Company *Rasht, Iran* Aug 2011 – May 2024

IT Operations Supervisor (2021–2024) · Technical Support Lead (2018–2021) · Software Engineer (2014–2018) · Assistant Engineer (2011–2014)

- Progressed from assistant engineer to IT operations supervisor at a leading home-appliance manufacturer over 12+ years.
- Led system upgrades, network optimization, and infrastructure planning; coordinated technical teams and project timelines for on-time delivery.
- Delivered enterprise software deployment, diagnostics, and issue resolution; mentored junior staff and standardized technical procedures and documentation.

EDUCATION

Diploma, Business Administration - Anderson College of Health, Business & Technology, ON 2025 – 2026

M.Sc., E-Commerce - Mehrastan University, Iran 2016 – 2019

B.Eng., Web & Multimedia Information Design - University of Applied Science and Technology, Iran 2012 – 2015

Associate, Computer Software Engineering - Shahid Rajaei Teacher Training University, Iran 2000 – 2003

ADDITIONAL

Languages	Persian (Native), English (Professional), French (Basic)
Speaking	TEDx Speaker
Publications	Peer-reviewed and popular-science articles on exoplanets, habitability, and star-naming systems (full list on LinkedIn).