

MEHRZAD BABAEI

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PROFILE SUMMARY

Software developer with a Computer Science degree from Memorial University and hands-on experience building and maintaining production systems in Python, JavaScript, and Java. Spent the past year and a half evaluating data quality and output correctness at scale for Outlier AI, developing a sharp eye for where data looks right but isn't. Built data pipelines and analytics tooling independently, including a RAG system with PostgreSQL/pgvector for structured retrieval and an LLM-based pipeline that extracts and transforms unstructured data into queryable formats. Comfortable working across the full stack, from database design through API development to deployment, with a strong pull toward data-intensive, analytically driven work.

EDUCATION

Bachelor of Computer Science

April 2019 – February 2024

Memorial University of Newfoundland – St. John's, NL

Software Developer Courses

January 2020 – January 2021

Get-Coding Software Training Institute – St. John's, NL

RELEVANT SKILLS

Languages & Frameworks: Java, Python, JavaScript (ES6+), TypeScript, React, Next.js, Node.js, Angular

AI & Data: pandas, NumPy, data pipeline design, batch data processing, data quality assessment, OpenAI API, LangChain, RAG pipelines, vector embeddings (pgvector), Power BI

Infrastructure & Tools: PostgreSQL, MongoDB, MySQL, RESTful APIs, Docker, Git, GitHub Actions, CI/CD, Bash/UNIX, Agile/Scrum

Working Style: End-to-end problem ownership, root-cause analysis, technical documentation, cross-functional collaboration with Product and Analytics teams, translating business needs into technical solutions

PROFESSIONAL EXPERIENCE

Software Developer

November 2025 – Present

Collective Interchange – St. John's, NL

- Designed and shipped features across the full stack in JavaScript, Next.js, and Python, backed by MongoDB for data persistence and retrieval.
- Owned production issue resolution end-to-end: triaged from logs, traced through application layers, identified root causes, and shipped fixes with minimal turnaround.
- Identified and documented technical debt and process bottlenecks, then worked with the team to prioritize and resolve them across sprints.
- Translated business and product requirements into technical implementations, coordinating across engineering, product, and customer-facing teams.

Software Developer (AI Trainer)

October 2024 – Present

Outlier AI – Remote

- Evaluated large volumes of technical outputs for correctness, data integrity, and logical consistency, applying systematic quality criteria across hundreds of assessments.
- Caught data quality issues and edge cases that automated systems missed, producing structured analysis on failure modes and recommending corrections to upstream processes.
- Built pattern recognition for subtle data and logic errors in complex outputs, a skill directly transferable to validating analytics pipelines and detecting anomalies in large datasets.

Software Developer (Co-op)

January 2021 – September 2021

BreatheSuite Inc. – St. John's, NL

- Designed and implemented RESTful APIs and cloud services handling production data for a regulated health tech product with real patient users.
- Built frontend components in React/TypeScript/Node.js with a focus on data reliability and automated regression testing.

- Diagnosed and resolved production incidents using structured log analysis and monitoring tools, improving system reliability over time.
- Operated in Agile sprints with cross-functional teams: sprint planning, code reviews, retrospectives, and iterative delivery against tight timelines.

PORTFOLIO & PROJECTS

A selection of personal and academic projects is available at portfolio.zadprogramming.com, including data pipeline projects, full-stack applications with PostgreSQL backends, and independently scoped systems built end-to-end from design through deployment.