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Marko Bachvarovski

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TN Visa eligible

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Work Experience

Savi Finance (Fintech Startup)   Toronto, ON

Senior Software Engineer   May 2025 - Present

- Led a team of 3 engineers to rebuild Savi Finance's Identity infrastructure using TypeScript and MongoDB, to support large-scale multi-tenant Identity and Access Management (IAM), transforming simple user login into role-based platform that directly enabled 12+ enterprise deals

Software Engineer   November 2024 - May 2025

- Enabled data analysis at scale for 10,000+ users by building a high-scale transaction export service using Golang, AWS SQS and S3 for storage, maintaining sub-2 minute response times during transaction processing
- Designed a Python algorithm for managing shared expenses, achieved sub-100ms latency on reads by using Redis to cache a real-time balance graph and reconciling 30,000+ transactions
- Engineered an automated vendor matching pipeline by fetching vendor data and applying a Levenshtein distance-based retrieval algorithm, processing 50,000+ transactions and accurately identifying 3,000+ vendor mismatches
- Developed an event-driven notification service in under 6 weeks, using RESTful APIs, AWS and TypeScript to deliver real-time alerts across services via a fan-out and pub-sub architecture

Insurance Systems Inc.   Toronto, ON

Software Developer   June 2023 - November 2024

- Built a broker-driven pricing algorithm in JavaScript and PostgreSQL that enabled real-time commission adjustments to reduce quotes for hesitant clients, unblocking 170+ quotes annually and leading to a $400,000 estimated annual revenue increase
- Developed a full-stack policy management feature using HTML, CSS, and JavaScript for a new client; collaborated with cross-functional teams to integrate client workflows and transition from manual to digital processes, improving operational efficiency
- Automated recurring policy renewals using Python and JavaScript job schedulers to execute batch operations on PostgreSQL-based database, saving 160+ hours of manual policy renewal efforts
- Maintained a real-time write-behind cache to minimize PostgreSQL writes while ensuring strong consistency with client-side updates, supporting accurate premium calculations and reliable downstream data processing

Education

University of Toronto

Honors Bachelor of Science (HBSc) with Distinction, major in Physics, minor in Computer Science

Additional Skills

- **Languages** — Java, C++
- **Technologies/Libraries** — Git, Github, React, Docker, Kubernetes, JSON-RPC, gRPC, Django, Bootstrap, Jest, Postman, Jenkins, Sentry
- **Other** — Relational databases, Microservices, Cloud architecture, Distributed Systems, Object-Oriented Design, CI/CD