

Travis Edwin Miller
Senior Software Engineer – Systems, Tooling & Reliability

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Summary

Senior software engineer with 8+ years of experience designing reliable, testable, and scalable systems across SaaS and real-time applications. Strong background in backend architecture, developer tooling, and correctness-critical workflows, grounded in a Bachelor of Mathematics from the University of Waterloo.

Core Engineering Focus

- System design with correctness and long-term maintainability
- API design, data modeling, and invariant-driven development
- Testable architectures and validation pipelines
- Offline synchronization and consistency under partial failure
- Developer tooling and internal frameworks
- Technical leadership and cross-team collaboration

Experience

Lead Full Stack Developer
Augmego (Aug 2023 – Feb 2026)

- Led development of a real-time, multiplayer 3D collaboration platform
- Designed modular backend systems emphasizing clear interfaces and testability
- Built real-time synchronization using WebSockets and WebRTC
- Implemented state replication strategies to maintain client consistency
- Created internal tooling to support rapid iteration on complex systems

Backend Developer (SaaS)
HeadCount365 (Jan 2023 – Jul 2023)

- Developed backend services using Python and Django REST APIs
 - Implemented a caching layer reducing response times from minutes to seconds
 - Improved system reliability by isolating performance bottlenecks
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Lead Full Stack Developer (SaaS)

MakerKids (Jun 2022 – Oct 2022)

- Led development of a STEM-focused learning management system
 - Designed backend APIs and frontend integrations with maintainability in mind
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Senior Full Stack Developer (SaaS)

SignAgent Inc. (Aug 2017 – Dec 2021)

- Architected deterministic document-generation pipelines
 - Designed offline-first synchronization APIs
 - Built rich relational data models with strict invariants
 - Created internal tooling for batch processing and exports
 - Mentored engineers and established backend quality standards
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Early Career – Mathematical Software & Tooling

University of Waterloo / Maplesoft (2012 – 2015)

- Developed algorithmic mathematics content with strict correctness guarantees
 - Worked with faculty to ensure mathematical precision and edge-case coverage
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Education

University of Waterloo
Bachelor of Mathematics (Co-op)

Technologies

Python, Django, REST APIs, Docker, SQL, Redis, AWS
JavaScript/TypeScript, React, WebSockets, WebRTC
Swift (working proficiency; focus on testing and tooling)