TYLER HOLEWINSKI

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WORK EXPERIENCE

Software Engineer II   May 2024 – Present
Bryx, Inc. — *Rochester, NY*
- Acted as frontend technical lead, setting architecture, standards, and review practices across multiple products.
- Designed and implemented Kotlin and GraphQL APIs for a mission-critical emergency mass notification system used by public safety agencies.
- Took primary ownership of the a message delivery API, designing message lifecycles and multi-channel delivery (SMS, push, email, voice).
- Delivered end-to-end features spanning database design, backend implementation, and frontend interfaces.
- Integrated OpenTelemetry across frontend and backend services, improving observability and production reliability.

Frontend Software Engineer I   Aug 2022 – May 2024
Bryx, Inc. — *Rochester, NY*
- Designed and implemented an internal DSL and compiler for declarative validation of complex NFIRS and NERIS forms.
- Built a dependency-aware validation system with batched state updates to preserve React performance.
- Served as frontend subject-matter expert for form-heavy and mapping features, influencing architectural decisions.

Intern Software Engineer   May 2022 – Aug 2022
Bryx, Inc. — *Rochester, NY*
- Developed core frontend functionality for a SaaS records management system focused on high configurability for fire departments.
- Designed and implemented a custom-field-based personnel management system, demoed to leadership and prospective clients.

SELECTED WORK

TiCoder — ticoder.dev
- Built a browser-based TI-BASIC editor and compiler using Blockly, enabling students to visually compose and deploy programs without proprietary tools.
- Developed companion libraries including better-blockly for typesafe Blockly block definitions and a Rust toolchain (tibrs) for TI-BASIC binary compilation.

EDUCATION

Rochester Institute of Technology, *School of Independent Study*
B.S. Applied Arts and Science (completed part-time)
Focus in Software Engineering and Mathematics

SKILLS

- **Frontend Systems** TypeScript, React, GraphQL, Complex Form & Validation Workflows
- **Backend Systems** Kotlin, Node.js, PostgreSQL, Event-Driven & Message-Oriented Architectures, API Design
- **Observability & Tooling** OpenTelemetry, RabbitMQ, Grafana, Docker, CI/CD, Linux