THOMAS GEBERT

Staff Software Engineer

Brooklyn, New York, United States

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SKILLS, LANGUAGES, INTERESTS

- **Languages**: Java, Python, SQL, Clojure, C++, F#, Go, JavaScript, Scala, Erlang/OTP
- **Platforms & Frameworks**: .NET Framework, Vert.x, Node.js, Docker, ZeroMQ, core.async
- **Data & Streaming**: Kafka, Apache Spark, PostgreSQL, RocksDB
- **Cloud & Systems**: GCP, AWS, Linux, Shell Scripting
- **Media & Tools**: FFmpeg

EDUCATION

Western Governors University   **Salt Lake City, UT**
B.S. Computer Science

Western Governors University   **Salt Lake City, UT**
M.S. Computer Science

University of York   **York, United Kingdom**
Graduate Studies in Computer Science
- Research in Formal Methods and Robotics (Isabelle, Haskell, FDR4).
- Verification tools for concurrency-safety in robotic systems.

WORK EXPERIENCE

Schrödinger   **New York, NY**
Senior Software Engineer   Feb 2024 – Apr 2025
- Maintained topology of Kafka Streams applications.
- Augmented RocksDB and optimized write throughput on streaming applications.
- Replaced RocksDB with custom PostgreSQL backend (50% of prior throughput) while cutting cloud storage costs by 80% and reducing duplication across nodes.
- Used Vert.x, Caffeine caches, Bloom filters, and LMAX Disruptor to minimize latency.
- Deployed and maintained distributed apps on Google Cloud Platform.

CUNY City Tech   **New York, NY**
Adjunct Lecturer (Contract)   Aug 2022 – Jun 2023
- Taught introductory and advanced programming (Python 3 and Java 17).
- Built interactive assignments and automated grading modules.
- Collaborated on robotics and cyber-physical systems curriculum.
- Received perfect student reviews for two consecutive semesters.

Reddit, Inc.   **New York, NY**
Senior Software Engineer   Aug 2022 – Nov 2022
- Redesigned image-resizing pipeline in Python and Go, reducing infra cost by approximately 40%.

Walmart Global Tech   **New York, NY**
Staff Software Engineer   Aug 2021 – Aug 2022
- Mentored engineers in distributed computing and functional programming.
- Designed multi-cluster chatbot architecture (F#, C#) with >30% latency reduction.
- Led GraphQL API design and multi-cluster deployment on Azure.

Thrive Global   **New York, NY**
Contract Engineer   Mar 2021 – Aug 2021
- Built localization features in Node.js and containerized services with Docker.

Apple, Inc. New York, NY
Senior Software Engineer Sep 2018 – Feb 2021
- Built telemetry & analytics (Java, Clojure, Kafka, Spark, Tableau).
- Created Kafka buffering for iTunes indexing/caching.
- Maintained rule engine (Objective-C/C++).

Walmart Global Tech (Jet.com) Hoboken, NJ
Senior Software Engineer Jul 2016 – Aug 2018
- Built microservices in F# on Azure using Kafka and Spark ML.
- Rebuilt transactional email system to Jet.com scale.

Tone Mobile New York, NY
Software Engineer Sep 2015 – Jun 2016

New York University New York, NY
Research Scientist Mar 2015 – Sep 2015

Sq1 Dallas, TX
Application Developer May 2014 – Feb 2015

Senico, LLC Dallas, TX
Software Engineer Jun 2013 – Apr 2014

Propulsion Labs Dallas, TX
Software Engineer Jan 2013 – Jun 2013
- Developed web applications and internal tooling.

Amerinational Management Services Orlando, FL
Web Developer Jan 2012 – Dec 2012

Lockheed Martin Orlando, FL
Software Engineering Intern May 2011 – Aug 2011

PROJECTS

Talk — Lambda Days 2025 — From 'Java Sucks' to 'Java...Eh, Not Bad'
- Overview of Java 21 + Vert.x for functional programmers.

Talk — Lambda Days 2023 — Why Design Your Own Levels When Your Computer Can Do It?
- Procedural generation of video game levels with WebGL and ClojureScript.

Talk — Lambda Days 2022 — Predicting and Preventing Chaos with Formal Methods in TLA+
- Introduction to formal methods with TLA+ demo.

Talk — Lambda Days 2020 — Distributed Hash Tables, Video, and Fun!
- Demonstration of distributed video-sharing system using DHTs.

Talk — Clojure/conj 2019 — Distributed Hash Tables, Video, and Fun!
- Demonstration of distributed video-sharing system using DHTs.

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