Thomas Gebert

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Computer skills

Java 17	**Kakfa**	ZeroMQ	Node.JS
Python	**Apache Spark**	C++	Scala
SQL	Erlang/OTP	F#	FFMpeg
Clojure	Linux	Go	TLA+
.NET Framework	Shell Scripting	JavaScript	Docker

Education

Western Governor's University   **Salt Lake City, UT**

B.S. Computer Science

Experience

Lead Bank   **New York, New York**

Senior Software Engineer   *September 2023 – November 2023*

○ Helped scale and maintain the ACH processing system.
○ Worked with AWS Lambda, AWS Step Functions, Go, Java, and DynamoDB.
○ used Message Queues like SQS to communicate between services.
○ Utilized Docker for local development and testing of applications.
○ Enhanced deployment scripts to handle different types of sevices.
○ Oversaw the onboarding of multiple clients onto our platform.

CUNY City Tech   **New York, New York**

Adjunct Lecturer (Contract)   *August 2022 – June 2023*

○ Taught introductory programming to computer engineering students.
  - Introductory and advanced Python 3 and Java 17.
○ Created and graded homework assignments and tests.
○ Coded interactive learning modules in JavaScript and Python for students to practice.
○ Worked with professors designing cyber-physical systems to help formalize robotics applications.
○ Given a perfect score for teacher reviews for two semesters in a row.

OnFrontiers Inc.   **New York, New York**

Principal Software Engineer   *February 2023 – May 2023*

○ Facilitated video communication of clients to potential consulting jobs.
○ Redesigned core platform to utilize an asynchronous pipeline.
  - Presented my design to Junior and Senior engineers, as well as CTO.
  - Design was approved by team and CTO.
  - Personally led the implementation of the design.
  - Increased throughput by fifteen percent.

Reddit Inc.   **New York, New York**

Senior Software Engineer   *August 2022 – November 2022*

- o Used Python, Go, and Docker to help rebuild the image resizing service.
- o Utilized Kafka to build distributed systems.
- o Wrote build configuration scripts in Python.
- o Worked on deployments to Google Cloud Platform.
- o Designed and presented new a new version of image caching service.
  - Implemented design after being approved by committee.
  - Decreased cost of image-resizing by over forty percent by moving service in-house instead of outsourcing.

Walmart Global Tech   **New York, New York**
Staff Software Engineer   *August 2021 – August 2022*
- o Mentored junior and mid-level engineers in distributed computing and functional programming.
- o Made use of message queues to schedule and partition work across multiple nodes.
- o Delegated and managed work across several engineers when designing distributed systems.
- o Built NLU pipelines for the Chatbot on walmart.com utilizing the Microsoft Bot Framework.
  - Utilized the Microsoft Bot Framework, F# and C#.
- o Architected the multi-cluster design of the Chatbot.
  - Decreased chatbot latency by over thirty percent across multiple clusters.
  - Coordinated the release of multi-cluster deployment of chatbot.
- o Utilized Microsoft Azure, Linux, and Python to build infrastructure.
- o Designed and built APIs with GraphQL.

Thrive Global   **New York, New York**
Contract Engineer   *March 2021 – August 2021*
- o Utilized Node.js to build the localization features.
- o Used Docker to build microservices.
- o Wrote build scripts in Python.

Apple Inc.   **New York, New York**
Senior Software Engineer   *September 2018 – February 2021*
- o Designed and built a telemetry and analytics system for finding potential bottlenecks in the cache indexes utilizing Java 11, Clojure, Kafka, Apache Spark, and Tableau.
- o Fixed issues and bugs in the iTunes server backend.
- o Built a Kafka-based buffering service to reduce load on indexing and caching for iTunes.
- o Maintained and expanded rule engine for iTunes, utilizing Objective-C and C++.
- o Deployed Java code onto Amazon Web Services and Linux.

Walmart Global Tech (Jet.com)   **Hoboken, New Jersey**
Senior Software Engineer   *July 2016 – August 2018*
- o Wrote Microservices in F#.
- o Utilized the Microsoft Azure stack.
- o Used Apache Kafka to send data between services.
- o Utilized Python in conjuction with Apache Spark ML to figure out optimal time to send email.
- o Rebuilt the transactional email system to scale to Jet.com size.
- o Taught the F# language during code bootcamps.

Tone Mobile   **New York, New York**
Software Engineer   *September 2015 – June 2016*
- o Wrote and maintained Erlang backends.
- o Created modules for Ejabberd.
- o Integrated chat server with Node.js backend.

New York University   **New York, New York**
Research Scientist   *March 2015 – September 2015*

○ Debug Angular.JS frontends.
○ Debug Scala backends.
○ Help write Haskell backends.
○ Programmatically use FFMpeg for video transcoding.

Sq1   **Dallas, Texas**
Application Developer   *May 2014 – February 2015*

Senico, LLC   **Dallas, Texas**
Software Engineer   *June 2013 – April 2014*

Propulsion Labs   **Dallas, Texas**
Software Engineer   *January 2013 – June 2013*

Amerinational Management Services   **Orlando, Florida**
Web Developer   *January 2012 – December 2012*

Lockheed Martin   **Orlando, Florida**
Software Engineering Intern   *May 2011 – August 2011*

Public Speaking

Lambda Days 2023 – Why Design Your Own Levels When Your Computer Can Do it?: Presented an introduction to doing WebGL with ClojureScript, in addition to showing a few simple procedural level generation algorithms for games

Lambda Days 2022 – Predicting and Preventing Chaos with Formal Methods in TLA+: Presented in Krakow, Poland, an introduction to formal methods via a brief description and demonstration of the TLA+ specification language.

Lambda Days 2020 – Distributed Hash Tables, Video, and Fun!: Presented in Krakow, Poland, the same talk as stated above.

Clojure Conj 2019 – Distributed Hash Tables, Video, and Fun!: Presented in Durham, North Carolina, a demonstration of a project involving a video sharing system using distributed hash tables and to farm out video transcoding.

Certifications

ITIL 4   **2021**
PeopleCert

Project+ Management   **2021**
CompTIA

Practical Guide to Trading   **2023**
Interactive Brokers