Thomas Gebert

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Computer skills

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

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*

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

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

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

o Taught introductory programming to computer engineering students.
  - Introductory and advanced Python 3 and Java 17.
o Created and graded homework assignments and tests.
o Coded interactive learning modules in JavaScript and Python for students to practice.
o Worked with professors designing cyber-physical systems to help formalize robotics applications.
o 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*

o Facilitated video communication of clients to potential consulting jobs.
o 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.
  - Wrote infrastructure code in Python and Go.

Reddit Inc.   **New York, New York**
Senior Software Engineer   *August 2022 – November 2022*
- Used Python, Go, and Docker to help rebuild the image resizing service.
- Utilized Kafka to build distributed systems.
- Wrote build configuration scripts in Python.
- Worked on deployments to Google Cloud Platform.
- 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*
- Mentored junior and mid-level engineers in distributed computing and functional programming.
- Made use of message queues to schedule and partition work across multiple nodes.
- Delegated and managed work across several engineers when designing distributed systems.
- Built NLU pipelines for the Chatbot on walmart.com utilizing the Microsoft Bot Framework.
  - Utilized the Microsoft Bot Framework, F# and C#.
- 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.
- Utilized Microsoft Azure, Linux, and Python to build infrastructure.
- Designed and built APIs with GraphQL.

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

Apple Inc.   **New York, New York**
Senior Software Engineer   *September 2018 – February 2021*
- 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.
- Fixed issues and bugs in the iTunes server backend.
- Built a Kafka-based buffering service to reduce load on indexing and caching for iTunes.
- Maintained and expanded rule engine for iTunes, utilizing Objective-C and C++.
- Deployed Java code onto Amazon Web Services and Linux.

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

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

New York University   **New York, New York**
Research Scientist   *March 2015 – September 2015*
o Debug Angular.JS frontends.
o Debug Scala backends.
o Help write Haskell backends.
o Programmatically use FFMpeg for video transcoding.

Sq1   **Dallas, Texas**
Application Developer   *May 2014 – February 2015*
o Used the Joomla and Wordpress CMS systems to build websites for advertising clients.
o Wrote backends in Node.js.

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.