Thomas Gebert

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Computer skills

Clojure	C	JavaScript	Vim
Haskell	F#	**Apache Spark**	Scala
Erlang/OTP	Go	Node.JS	**FFMpeg**
Java	**Kakfa**	Idris	TLA+
ZeroMQ	LaTeX	Git	

Experience

Walmart Global Tech   **New York, New York**
Staff Software Engineer   *August 2021 – Present*
- Built NLU pipelines for the Chatbot on walmart.com
- Coordinated the release of multi-cluster deployment of chatbot.

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 Clojure, Kafka, Apache Spark, and Tableau.
- Fix issues and bugs in the iTunes server backend.
- Built a Kafka-based buffering service to reduce load on indexing and caching for iTunes.

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.
- 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*
- Write and maintain Erlang backends
- Create modules for Ejabberd
- Integrate 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

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.

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

Side Projects

FSharp.Csv: A reflection-based CSV serializer, written in F#, designed to handle large, multi-gigabyte CSV files, while providing a simple, functional interface, and remaining relatively fast.

Vertigo.Json: A reflection-based JSON serializer and deserializer, designed to be used with F#, with an emphasis on being easy-to-use, fast, and null-safe.

Scudlib: A library, written in Clojure, to do homomorphic encryption. Currently supports the Pallier algorithm.

Frameworkey: Erlang: A scalable MVC Framework for Erlang allowing for the composition of route handlers.

Frameworkey: Promise Edition: An MVC framework for Node.JS allowing for composable routes

For more, please visit gitlab.com/tombert

Education

Western Governor's University	**Salt Lake City, UT**
B.S. Computer Science	