

# Thomas Gebert

693 Thomas S Boyland St. – Brooklyn, NY – United States

☎ 214-451-7333 • ✉ [thomas@gebert.app](mailto:thomas@gebert.app)

## Computer skills

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Clojure	C	JavaScript	Vim
Haskell	F#	Apache Spark	Scala
Erlang/OTP	Go	Node.JS	FFMpeg
Java	Kakfa	Idris	TLA+
ZeroMQ	L <sup>A</sup> T <sub>E</sub> X	Git	

## Experience

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### Apple Inc.

New York, New York

Senior Software Engineer

September 2018 – Present

- o Designed and built a telemetry and analytics system for finding potential bottlenecks in the cache indexes utilizing Clojure, Kafka, Apache Spark, and Tableau.
- o Fix issues and bugs in the iTunes server backend.
- o 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

- o Wrote Microservices in F#
- o Utilized the Microsoft Azure stack
- o Used Apache Kafka to send data between services.
- 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 Write and maintain Erlang backends
- o Create modules for Ejabberd
- o Integrate 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

### Senico, LLC

Dallas, Texas

Software Engineer

June 2013 – April 2014

**Propulsion Labs**  
*Software Engineer*

**Dallas, Texas**  
*January 2013 – June 2013*

**Amerinational Management Services**  
*Web Developer*

**Orlando, Florida**  
*January 2012 – December 2012*

**Lockheed Martin**  
*Software Engineering Intern*

**Orlando, Florida**  
*May 2011 – August 2011*

## Public Speaking

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**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

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**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.

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

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

For more, please visit [gitlab.com/tombert](https://gitlab.com/tombert)