

# Thomas Gebert

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## Computer skills

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|            |                                 |                |         |
|------------|---------------------------------|----------------|---------|
| Clojure    | L <sup>A</sup> T <sub>E</sub> X | Play Framework | FreeBSD |
| Haskell    | JavaScript                      | tmux           | Linux   |
| Erlang/OTP | <b>Apache Spark</b>             | Git            | TLA+    |
| F#         | Node.JS                         | Vim            |         |
| Go         | Idris                           | Scala          |         |
| Kakfa      | Ejabberd                        | <b>FFMpeg</b>  |         |

## Experience

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### Apple Inc.

**New York, New York**

*Senior Software Engineer*

*September 2018 – Present*

- 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.

### Jet.com

**Hoboken, New Jersey**

*Senior Software Engineer*

*July 2016 – August 2018*

- Write Microservices in F#
- Utilized the Microsoft Azure stack
  - Used the CosmosDB NoSQL store.
  - Used Azure Functions to handle serverless systems.
  - Used Table Storage for larger, lower-access data.
- Participated in the development of an event-source database.
- Use Apache Kafka to send data between services.
- Write a push notification server.
- Rebuilt the transactional email system to scale to Jet.com size.
  - Handles every Order Confirmation, Item Shipped, Order Cancelled, and Password Reset email on the website.
- Wrote and discussed design documents for large, distributed systems.
- Taught the F# language during code bootcamps.
- Utilized TensorFlow Machine Learning to recommend products and choose ideal times to send marketing emails.
- Built a fully distributed P2P clone of YouTube during a hackathon.
- Gave talks on the Idris programming language, the Vim text editor, and the TLA+ model-checker.

### 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
- Integrate live-chats with AngularJS

**New York University***Research Scientist*

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

**Sq1***Application Developer*

- o Wrote web applications using Angular.JS and Node.JS.
- o Wrote deployment scripts for web applications.
- o Deployed on:
  - Daikin Comfort Marketing Website
  - Shell Gasoline Coupon Portal - Lead Developer
  - Jiffy Lube Coupon Portal - Lead Maintainers

**Senico, LLC***Software Engineer*

- o Wrote web-application servers in Node.JS
- o Created an MVC-compliant web-framework for KoaJS
- o Wrote web-application frontends in Angular.JS
- o Wrote application backends for mobile applications
- o Managed projects in Symfony, CodeIgniter, and Node.JS
- o Deployed on:
  - MPW Video Portal
  - Caddis Heartis Retirement Home Finder
  - Alpha Athlete Social Gym (Renamed to LOASC)

**Propulsion Labs***Software Engineer*

- o Wrote applications for iOS
- o Created applications using PhoneGap and Cordova
- o Wrote programs using JavaScript and KendoUI
- o Lead Engineer for ABB Mobile App

**Amerinational Management Services***Web Developer*

- o Wrote web applications in Flash and Coldfusion
- o Wrote SQL scripts for SQL Server

**Lockheed Martin***Software Engineering Intern*

- o Wrote image processing software.
- o Obtained security clearance.
- o Ported software to ARM CPUs.
- o Optimized C++ backend
- o Utilized the OpenCV library.

**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.

**New York, New York**  
*March 2015 – September 2015*

**Dallas, Texas**  
*May 2014 – February 2015*

**Dallas, Texas**  
*June 2013 – April 2014*

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

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

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

**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 massively scalable MVC Framework for Erlang that (currently) handles loads of roughly 100,000 concurrent users on a single machine, with composable routes to allow rapid development

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

**StockScrape:** An application to scrape Yahoo Stocks, written in Haskell

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