Thomas Gebert

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Computer skills

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

Experience

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.
- 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
- 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.

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!: A talk about a video sharing project I did with a friend to build a fully leaderless and distributed clone of YouTube

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 github.com/tombert