

Thomas Gebert

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Computer skills

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

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

- 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

- o Write and maintain Erlang backends
- o Create modules for Ejabberd
- o Integrate chat server with Node.js backend
- o Integrate live-chats with AngularJS

New York University

Research Scientist

- o Debug AngularJS 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 AngularJS and NodeJS.
- 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 NodeJS
- o Created an MVC-compliant web-framework for KoaJS
- o Wrote web-application frontends in AngularJS
- o Wrote application backends for mobile applications
- o Managed projects in Symfony, CodeIgniter, and NodeJS
- 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.

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

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.

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