

Thomas Gebert

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Computer skills

Python	Java	F#	Node.JS
SQL	Linux	Go	.NET Framework
Clojure	Shell Scripting	Kakfa	Scala
Haskell	ZeroMQ	JavaScript	FFMpeg
Erlang/OTP	C++	Apache Spark	TLA+

Education

Western Governor's University

Salt Lake City, UT

B.S. Computer Science

University of York

York, United Kingdom

Ph.D. Computer Science, Formal Methods

Currently Enrolled

Experience

CUNY City Tech

New York, New York

Adjunct Lecturer

August 2022 – June 2023

- Taught introductory programming to computer engineering students.
 - Introductory and advanced Python and Java.
- Created and graded homework assignments and tests.
- Coded interactive learning modules in JavaScript and Python for students to practice.
- Worked with professors designing cyber-physical systems to help formalize robotics applications.

Walmart Global Tech

New York, New York

Staff Software Engineer

August 2021 – August 2022

- Built NLU pipelines for the Chatbot on walmart.com utilizing the Microsoft Bot Framework.
 - Utilized the Microsoft Bot Framework, F# and C#.
- Coordinated the release of multi-cluster deployment of chatbot.
- Utilized Microsoft Azure, Linux, and Python to build infrastructure.

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 Java, Clojure, Kafka, Apache Spark, and Tableau.
- Fixed issues and bugs in the iTunes server backend.
- Built a Kafka-based buffering service to reduce load on indexing and caching for iTunes.
- Maintained and expanded rule engine for iTunes, utilizing Objective-C and C++.
- Deployed Java code onto Amazon Web Services and Linux.

Walmart Global Tech (Jet.com)*Senior Software Engineer*

- 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.

Hoboken, New Jersey*July 2016 – August 2018***Tone Mobile***Software Engineer*

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

New York, New York*September 2015 – June 2016***New York University***Research Scientist*

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

New York, New York*March 2015 – September 2015***Sq1***Application Developer***Dallas, Texas***May 2014 – February 2015***Senico, LLC***Software Engineer***Dallas, Texas***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**

Lambda Days 2023 – Why Design Your Own Levels When Your Computer Can Do it?: Presented an introduction to doing WebGL with ClojureScript, in addition to showing a few simple procedural level generation algorithms for games

Lambda Days 2022 – Predicting and Preventing Chaos with Formal Methods in TLA+: Presented in Krakow, Poland, an introduction to formal methods via a brief description and demonstration of the TLA+ specification language.

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

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.

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.

For more, please visit gitlab.com/tombert