# Christopher Geihsler

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## Experience

**Turnitin** — Pittsburgh, PA
Principal Software Engineer — March 2017 – Present

Develop and maintain Revision Assistant, an application that helps K-12 students improve their writing by delivering instant, automated feedback.

- Developed, tested, and deployed user-facing features in JavaScript and Python.
- Led a team that successfully migrated RA's primary user interface from Angular to React/Redux.
- Led a team that successfully shipped a high-quality RA feature, Proofread Mode, on schedule.

**Think Through Learning (TTL)/Imagine Learning** — Pittsburgh, PA
Senior Software Engineer/Generalist/Engineering Manager — January 2013 - March 2017

Key contributor for TTL's flagship product, Think Through Math (TTM): an online, web-based, remedial math tutoring application focusing on students in grades 3-8. TTL was acquired by Imagine Learning in October 2016.

- Developed, tested, and deployed user-facing features in Ruby on Rails, JavaScript, and Elm.
- Scaled TTM to support 3,000,000 students completing over a billion math problems per school year.
- Implemented a reporting service that manages billions of rows and processes report requests from teachers, school administrators, and TTL employees.
- Developed a Node.js chat application that allows students to receive instruction from teachers in real-time.
- Utilized a simple branching strategy, feature flagging, and an "automate everything" attitude to easily, reliably, and continuously deploy our applications to the cloud.
- Acted as functional manager for three software engineers. Responsible for providing actionable feedback, conducting performance reviews, setting career goals, and managing the engineering hiring process.

**Omnyx** — Pittsburgh, PA
Senior Software Engineer — November 2008 - January 2013

Developed Omnyx's Integrated Digital Pathology (IDP) system: an enterprise application that allows anatomic pathologists to accurately and quickly diagnose patients by replacing a workflow of glass slides, microscopes, and paper records with digital images, electronic records, and integration to other systems within the hospital.

- Designed, developed, and tested user-facing features using C#, WPF, WCF, NHibernate, and SQL Server.
- Built control software for a high precision medical imaging device in C# and C++.
- Optimized SQL queries and application logic to support millions of patient cases.

**CareCentric** — Atlanta, GA/Pittsburgh, PA
Software Engineer/Technical Team Lead — May 2003 – November 2008

Developed and maintained Ac-Cura: a smart client home healthcare management software product that allowed customers to intake patients, collect clinical data, and generate healthcare claims.

- Designed and implemented a layered architecture using C#, WinForms, IIS, and SQL Server.

## Community

- Presented "Make the Big Change … One Small Change at a Time" at Abstractions 2016.
- Presented "Elixir vs. Node: Callback-free Concurrency" at CodeMash 2015 and Code and Supply.
- Organizer for Steel City Ruby Conference and regular attendee of the Pittsburgh Ruby meetup.

## Tools/APIs

- Ruby, Rails, Node.js, React, Backbone, Angular, Elm, Postgres, Redis, Python, Elixir, Heroku, AWS, git, vim
- .NET Framework 1.1-4.0, WPF, WCF, NHibernate, NServiceBus, MSSQL Server 2000-2008

## Education

**Georgia Institute of Technology (Georgia Tech)** — Atlanta, GA
B.S. in Computer Science, GPA: 3.25 (Honors) — 1998 - 2003
Specializations in Graphics and Networking