

Chris Geihlsler

4933 Hatfield St • Pittsburgh PA 15201 • 404-271-1164 • chris@geihlsler.net • @seejee

Objective

Seeking to delight users by continuously deploying high-quality, highly usable software as a full-time employee in a collaborative, agile, team-based environment.

Experience

Think Through Learning (TTL)

Senior Software Engineer/Generalist/Team Lead

Pittsburgh, PA

January 2013 - Present

Developed TTL's flagship product, Think Through Math (TTM): an online, web-based, remedial math tutoring application focusing on students in grades 3-9.

- Designed, developed, tested, and deployed user-facing features in a variety of frameworks and languages.
- Helped scale TTM to support 2.5 million students completing 850 million math problems in a single school year. At peak load, TTM processes 30,000 requests per minute with an average response time of 100ms.
- Designed and implemented a reporting application that holds more than a billion rows and processes report requests from teachers, school administrators, and TTL employees.
- Developed two single-page JavaScript applications: a chat application that allows students who need help to communicate over the internet with math teachers, and a responsive "lesson player" that presents TTM's math problems, help content, and instructional videos to its students.
- Utilized a simple branching strategy, feature flags, and an "automate everything" attitude to easily, quickly, and reliably deploy our applications to the cloud.
- Aggressively refactored the system to improve maintainability and reduce complexity.

Omnyx

Senior Software Engineer

Pittsburgh, PA

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++. Utilized messaging patterns to coordinate the movements of a high-speed robot with extremely sensitive optics.
- Designed and implemented a Web Services API used by 3rd party vendors to integrate with the IDP.
- Optimized SQL queries and application logic to support millions of patient cases.

CareCentric

Software Engineer/Technical Team Lead

Atlanta, GA/Pittsburgh, PA

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

- Organizer for Steel City Ruby Conference and regular attendee of the Pittsburgh Ruby meetup.
- Attended Udi Dahan's *Advanced Distributed Systems Design with SOA* in Austin, TX.
- Presented talks at several meetups and a contributor to dozens of open source projects.

Tools/APIs

OSS: Ruby 1.9-2.0, Rails 3.x, node, Backbone, Angular, Postgres 9.2, Redis, Solr, Heroku, AWS, git, vim
Microsoft: .NET Framework 1.1-4.0, WPF, WCF, NHibernate, NServiceBus, MSSQL Server 2000-2008

Education

Georgia Institute of Technology (Georgia Tech)

B.S. in Computer Science, GPA: 3.25 Honors
Specializations in Graphics and Networking

Atlanta, GA

1998 - 2003

HOPE Scholar, National Merit Scholar, Member of National Society of Collegiate Scholars