

GATLIN C JOHNSON

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EDUCATION

University of Texas, Austin
B.S. in Computer Science

June 2012

EXPERIENCE

IPsoft
R&D Engineer

March 2015 - April 2016
Austin, TX

- Worked on natural language and artificial intelligence applications.
- Contributed to sophisticated data center management software.

Know Your Contracts
Software Developer and Manager

March 2014 - February 2015
Austin, TX

- Designed and implemented a large contract analysis platform.
- Platform involves normalization of unstructured legal data into fixed ontologies.
- Managed a remote team of software developers and the associated infrastructure.

Andrew Harper
Software Developer

March 2013 - February 2014
Austin, TX

- Developed a Bayesian inference system to qualify human generated data
- Worked on an internal REST API powering the current website and services
- Occasionally gave seminars on git usage

Texas A&M Corpus Christi
Grad studies and R&D

July 2012 - November 2013
Austin, TX

- Built a quadrotor helicopter and worked on computer vision applications.
- Studied geospatial engineering for a semester.

PROJECTS & OTHER WORKS

tubes

<http://hackage.haskell.org/package/tubes>

- Stream processing library for Haskell. **Tubes** modify existing monads and allow them to connect in series, **yielding** values downstream or **awaiting** them upstream. Their dual, **Pumps**, serve as mechanisms for running tubes.

Surely

<https://github.com/gatlin/Surely>

- A proof-of-concept SAT solver using the Maybe monad. Notable for an implementation as simple as it is correct.

Alm

<https://github.com/gatlin/Alm>

- A functional reactive JavaScript library, oriented around signal processing. Features: event dispatching, compact virtual DOM, and novel usage of state monads to implement application controllers for safety and optimization.

Essays

<http://niltag.net/essays>

- Miscellaneous programming and computer science essays written for myself and others on various topics.

TECHNICAL STRENGTHS

Computer Languages

Haskell, Java, JavaScript, Perl, Python, C/C++, Scheme

Topics

Logic, automated reasoning, category theory, type theory

Tools

git, maven, vim, make, bash / coreutils, IDEA