GATLIN C JOHNSON

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EDUCATION

University of Texas, Austin   *June 2012*
B.S. in Computer Science

SELECTED EXPERIENCE

IPsoft   March 2015 - April 2016
R&D Engineer   *Austin, TX*

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

Know Your Contracts   March 2014 - February 2015
Software Developer and Manager   *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   March 2013 - February 2014
Software Developer   *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   July 2012 - November 2013
Grad studies and R&D   *Austin, TX*

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

HostGator.com   May 2011 - December 2011
Developer   *Austin, TX*

· Maintained & built infrastructure for a hugely popular web host.
· Developed user-friendly "one-click" web application package management system.

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, `yield`ing values downstream or `await`ing them upstream. Their dual, `Pumps`, serve as mechanisms for running tubes.

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