Tres Allen Spicher

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Boulder, Colorado
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Experience

Web Developer, Spike Software
June 2011 - Present

Consultant to TechStars Boulder class of 2012

Provided Ruby on Rails services to 27Perry. Working from TechStars HQ, I implemented a complete shopping cart, social, customer support, and payment integration, background job processing, analytics, and an admin backend, significantly expediting launch. (Ruby on Rails)

Secret Santa Generator

Designed, developed and marketed secretsantagenerator.net, garnering 12,000 unique visitors and securing a page one SERP spot on Google for a popular search term within two months of launch. (Ruby on Rails, PHP)

Software Engineer, Boulder Labs
March 2008 - June 2011

Implemented, tested and documented a web interface to a high-speed disk controller (including an ActiveRecord emulation layer) on-time and within budget. (Ruby on Rails, C, XML-RPC)

Led development and linguistic research for a leading education client's scalable grammar-checking service. Led project from proof of concept to production and achieved unprecedented accuracy and precision in correcting children's grammar. (Java EE)

Co-developed a reliable networking library for asynchronous transmission of serialized objects. Used as the core network infrastructure in emergency dispatching systems in dozens of major US cities. (C++)

Designed and implemented a responsive, event-driven interface to a Bose-Einstein condensate visualization suite. (Python, C++, Qt)

Developer, Level 3 Communications
January 2007 - March 2008

Overhauled automated testing system allowing testing to begin two weeks early. I also created a SIP call flow visualization tool and worked on my first large-scale software project. (Ruby, Java)

Education

M.S. Computer Science, University of Colorado at Boulder. GPA: 3.98/4.0

B.A. Linguistics, University of Colorado at Boulder. GPA: 3.90/4.0

Programming
Ruby
Python
C++
Java
C

Front end
HTML
CSS
Photoshop
Qt
wxWidgets
Javascript
Coffeescript

Back end
Rails
Boost.Asio
Java EE
SQL
ORM
Basic sysadmin

Concepts
MVC
Asynchronous networking
Concurrent programming

Coursework
HCI
Operating systems
Network systems
Artificial intelligence
Graphics
Natural language processing
Computer architecture

Personal
Traveled to 20 countries and 43 states
Avid amateur photographer
Advanced skier
Weather geek

References
Joonas Bergius, 27 Perry
Kelly James, 27 Perry
Dave VanWie, Boulder Labs
Robert Gray, Boulder Labs
Rachel Kim, Level 3