Andrew Bennett

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Personal Summary

I am a polyglot software engineer from Georgia living in the Dallas, Texas area with my wife and our two daughters. I enjoy architecting customer-value focused distributed, fault-tolerant, and high-availability systems and analyzing performance on everything from the operating system kernel level to the client-side applications themselves.

Technical

Expert

- Programming
 - C, CSS, Elixir, Erlang, HTML, Java, JavaScript, Ruby, Rust, Python, Shell Scripting, TypeScript
- Frameworks
 - Absinthe, Angular, Elixir Phoenix, Ember, Erlang/OTP, Flask, GraphQL, gRPC, Ionic, Kubernetes, pkgsrc, Ruby on Rails, Vue.js
- Operating Systems
 - Docker, SmartOS, FreeBSD, macOS, Linux (Alpine, Arch, CentOS, and Debian/Ubuntu)
- Spoken Languages
 - English, Spanish

Intermediate

- Programming
 - C++, Go, Haskell, Kotlin, Swift
- Frameworks
 - Android Studio, autoconf, automake, BSD Make, GNU Make, Xcode

Basic

- Programming
 - Objective-C, Perl, PHP
- Frameworks
 - CMake, Ninja
- Spoken Languages
 - Italian, Portuguese

Employment

Toyota Connected (Plano, TX)

Senior Software Engineer, Tech Lead, 2017-present

Worked on several large teams planning, architecting, designing, developing, testing, securing, and delivering multiple end-to-end customer-focused products from inception to post-launch continuous development in Hawaii, Japan, and North America. Worked with teams in Europe, India, Thailand, and Australia to establish global team collaboration patterns for other regional products. Practied Scrum and agile methodolgies at local as well as global scale. Mentored and managed other engineers, worked closely with customers, and held the role of product owner when needed. Gained experience with large-scale telematics stream processing, big data procressing, high-availability distributed systems design, customer-focused agile methodologies, Internet of Things (IoT) design, edge computing, automotive UI/UX design, and machine learning.

Rogue Financial, LLC/Vista Insurance Producers, LLC (remotely from Menan, ID)

Director of Information Technology, 2016-2017

Planned and developed the majority of the backend services and infrastructure for this insurance technology company. Server setup involves multiple intercommunicating SmartOS hosts which have been configured for high-availability. Multiple front-ends built with Angular and Vue.js which communicate with common backend API services.

Accomplishments

- Technologies employed: Angular, C, Erlang, Elixir, Node.js, PostgreSQL, Redis, Ruby on Rails, SmartOS, Vue.js
- Developed a distributed OAuth 2.0, OpenID Connect Core 1.0, and UMA 2.0 service used by insurance agencies to manage identity and user managed access between agents, carriers, and brokers.

Freelance: WealthSmart America, LLC (remotely from Menan, ID)

Web Developer/Server Administrator, 2014-2016

Planned and developed the majority of the backend services and infrastructure for this insurance company. Developed financial reporting, commissions, and payments system. Developed carrier feed integrations for tracking insurance applications. Developed lead system and simple analytics for tracking lead phone calls and other agent interactions. Server setup involves multiple intercommunicating SmartOS hosts which have been configured for high-availability. Multiple front-ends built with Angular which communicate with a common API.

Accomplishments

- Technologies employed: Angular, C, Erlang, Elixir, MongoDB, Node.js, Redis, Ruby on Rails, SmartOS
- Open Source
 - Erlang and Elixir JOSE RFC library (JWA, JWE, JWK, JWS, JWT)
 https://github.com/potatosalad/erlang-jose
 - Erlang Lightweight FTP Client https://github.com/potatosalad/lftpc
 - Erlang Joyent Manta Client https://github.com/potatosalad/erlang-manta
 - Erlang RSASSA-PSS Public Key signing algorithm implementation https://github.com/potatosalad/erlang-crypto_rsassa_pss
 - Erlang and Elixir HTTP Signature Scheme library
 https://github.com/potatosalad/erlang-http_signature

Freelance: Americo Manufacturing Company, Inc (remotely from Menan, ID)

Mobile App, Web Developer/Server Administrator, 2014-2015

Planned and developed the backend services and infrastructure for this floor mat and floor pad manufacturing company. Developed mobile app using the Ionic framework. Developed admin panel and API service for administering the content available in the app.

Accomplishments

 Technologies employed: Angular, Cordova, Ionic, Node.js, PostgreSQL, Ruby on Rails, SmartOS

Pagoda Box, Inc (Rexburg, ID)

Erlang, Kernel, Web Developer/Server Administrator, 2012-2014

Planned and developed several key pieces for this cloud hosting provider. Specialized in distributed/fault tolerant systems, Solaris/illumos based operating system internals, low-level and cloud level analytics and metrics, service discovery, and internal service messaging systems.

Accomplishments

- Technologies employed: C, Erlang, cowboy, ct, riak_core, mnesia, SmartOS, DTrace, mdb, Ruby on Rails, JavaScript, OpenVZ, CentOS, Ubuntu, Debian, Arch Linux (and many, many more)
- Kernel development on the illumos kernel using C and other technologies.
- Open Source
 - Erlang and JavaScript WebSockets pub/sub group of services known as stormpack.
 - https://github.com/stormpack-core
 - C driver for Erlang for reading solaris/illumos kstat metrics.
 https://github.com/potatosalad/ekstat
 - Research and development of custom networking kernel drivers for SmartOS, packaging, bootstrapping, and building processes.

 Ruby libraries for converting binary Erlang External Term Format to Ruby and back.

https://github.com/potatosalad/erlang-etf https://github.com/potatosalad/erlang-terms

Delorum/Rejuvenation, Inc (Rexburg, ID; Portland, OR)

Web Developer/Server Administrator, 2011-2012

Developed current website from wireframe drawings. Connected customer facing website to legacy warehouse software for designing 3D models of lighting fixtures in the browser. Setup hosting and deployment environment.

Accomplishments

- Technologies employed: Ruby on Rails, MongoDB, Redis, nginx, Linux, Microsoft Dynamics AX, BatmanJS
- Several backend system integrations were very heavily XML based.

The Church of Jesus Christ of Latter-day Saints (Las Vegas, Nevada)

Missionary, 2008-2010

Learned importance of accountability and leadership skills, particularly in a remote work environment.

Accomplishments

- Became fluent in Spanish.
- While serving in an office position gained additional experience with networking, Excel, and Access.

MyStock, Inc (Kennesaw, GA)

Web Developer/Server Administrator, 2006-2008

Mid-range stock photography company started to capture the niche market between Getty Images and iStockphoto. Getty Images eventually acquired iStockphoto and later MyStock to merge the two businesses.

Accomplishments

- Technologies employed
 - Web Framework related: Ruby on Rails, HAML, SASS, jQuery
 - Web Server related: Apache httpd, nginx, mongrel, Pound
 - Other: FreeBSD, PostgreSQL, git

Liberty Title Company, LLC (Kennesaw, GA)

Internal Web Developer, 2006

Developed internal reporting system for legacy Mortgage software based on legacy SQL Server.

Accomplishments

Technologies employed: Ruby on Rails, MSSQL, FreeBSD, SVN

Education

Brigham Young University - Idaho

Physics, 2010-2013

Kennesaw State University

Physics, 2006-2007

References

Available on request.