ERIC BAILEY

PERSONAL INFORMATION

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OBJECTIVE

Work with a disciplined team to accomplish well-defined goals in an open and collaborative environment, using the right technologies for tasks at hand.

PROGRAMMING LANGUAGES

> 10,000 LoC	Clojure, (Lisp Flavoured) Erlang, {Common,Emacs} Lisp, Scheme
> 5,000 LoC	Java, Objective-C, Swift
> 3,000 LoC	Haskell, Idris[1], Perl, PHP, Python
< 1,000 LoC	Agda[2], C, C++, Coq, Elixir, F$^\sharp$, Go, OCaml, SML

SELECT WORK EXPERIENCE

2015–Present   Contributor, OPEN SOURCE

Open Source

I make frequent contributions to open source, mostly in (Lisp Flavoured[3]) Erlang. Refer to my OpenHUB[4] and GitHub[5] profiles for more information. Recently, I've been helping organize an effort to modernize and maintain elli and its middlewares[6].

Tech: Clojure | Erlang | LFE | {Common,Emacs} Lisp | Nix | Racket | Scheme

2015–2016   Software Engineer, FRONTEND MASTERS

Frontend Masters

Starting as an occasional iOS contractor from 2013 through 2015, I joined the company[7] full-time by January 2016. Eventually, my responsibilities shifted from maintaining the iOS app to re-architecting the outdated backend, including codifying the data model, handling DevOps, designing and building an elli-based web app in LFE, maintaining parity (as appropriate) with the existing system and designing and building its modular, data-driven successor.

Tech: Erlang | LFE | Objective-C | Swift | CI | Core Data | DevOps | Docker | Documentation | Realm | REST | RxSwift | Video streaming

2014–2015   Software Engineer, INVISIBLE FRIEND

invisible friend

As a Software Engineer and half of the core engineering team at this social media startup[8], I was passionate about writing efficient, modular, well-tested code in a very agile environment.

Tech: Clojure(Script) | Node.js | Chrome | Docker | Datomic | {Level,Rethink}DB | PostgreSQL | Redis | DevOps

1 http://idris-lang.org
2 http://wiki.portal.chalmers.se/agda
3 https://github.com/rvirding/lfe
4 https://www.openhub.net/accounts/yurrriq
5 https://github.com/yurrriq
6 https://github.com/elli-lib
7 https://frontendmasters.com
8 https://plink.love

2014–2015   Web Developer, Transvoyant

Transvoyant

Building on the existing Java-based REST API, I spearheaded development of a new web front end in ClojureScript. It featured a user-customizable, data-driven UI with dynamic rendering and mobile-friendly drag-and-drop.
Tech: ClojureScript | CSS | JSON | React | DevOps | Modular | Mobile | REST

2012–Present   Owner, Electric Wizardry

Electric Wizardry

Periodically, I do contract work as my LLC. Such work has included SQL security hole patching[9], updating a bespoke kiosk web app[10] to work on IE8, porting an interactive Q&A app[11] from iOS to Android, writing a custom podcast app for iOS[12] and Android[13], developing a vocabulary-building app[14] for iOS, and helping implement and maintain a real-time audience interaction web app[15].
N.B. Much of my work has been augmented or phased out here.
For details refer to the web version of this document[16].

EDUCATION

2008–2013   Century College

Associate of Fine Arts in Music

Select Courses: Statistics, Calculus (CLEP[17]), Intro to Logic, Programming Fundamentals, Object-Oriented Programming, Internet Programming: Server-side Applications, Discrete Structures of Computer Science

2012–2013   Metro State University

Undergrad Computer Science

Select Courses: Programming with Elementary Data Structures, Computer Organization and Architecture, Computer Networks, The Nature of Language

2007–2008   University of Minnesota

General Studies

Select Courses: Physics, Modern Literature, Film, Political Science

MISCELLANEA

Interviews

Functional Geekery: Episode 59[18]
"In this episode... [I] talk [about my] entry into functional programming; work with Scheme, Clojure, Haskell, and LFE; getting into the LFE community; interop story with other BEAM languages; Exercism.io; and much more."

Know This Nerd? Meet Eric Bailey[19]
Casual interview re: my interest in programming and technology.

Spoken Languages

English	Native speaker
Español	Casi bilingüe
Italiano	Grammatica e vocabolario di base
Svenska	Grundläggande grammatik och ordförråd

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9   http://www.rfmoeller.com
10   https://www.honeywell.com
11   https://play.google.com/store/apps/details?id=com.caspersen.narrative
12   https://itunes.apple.com/us/app/tom-barnard-podcast-app/id1131763252
13   https://play.google.com/store/apps/details?id=com.tombarnard.show
14   https://web.archive.org/web/20130711014544/http://definest.co
15   https://www.voicehive.com
16   http://yurrriq.github.io/resume
17   https://clep.collegeboard.org/science-and-mathematics/calculus
18   https://www.functionalgeekery.com/episode-59-eric-bailey/
19   http://tech.mn/news/2013/08/21/know-this-nerd-meet-eric-bailey/