

## ERIC BAILEY

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### OBJECTIVE

Software Engineer

### JOB HISTORY/DUTIES

#### iOS/Android Engineer

The Tom Barnard Show App  
Saint Paul, MN

Months of Experience: 6

Wrote and developed an app for iOS and Android for users to listen to the Tom Barnard Show podcasts, paying strict attention to feature parity, while following platform-specific UX conventions.

Technologies: Objective-C, Core Data, Xcode, Java, Eclipse, JSON, Keywords: streaming audio, data-driven, feature parity, conventional UX

#### Android Developer

Native Therapy Questions  
Saint Paul, MN

Months of Experience: 1

Ported an existing interactive Q&A app from iOS to Android.

Technologies: Java, JSON, Android Studio  
Keywords: data-driven, iOS port

#### Web Developer

Honewell Lifecycle Solutions  
Saint Paul, MN

Months of Experience: 1

Ensured a consistent user experience between XP/IE8 and modern systems for an existing internal kiosk web app.

Technologies: HTML, CSS, JavaScript  
Keywords: legacy, internal, short deadline (one week)

#### Security Consultant

R.F. Moeller  
Saint Paul, MN

Months of Experience: 1

Traced existing code to find and patch a SQL-related security hole, protecting sensitive customer information.

Technologies: PHP, MySQL  
Keywords: security, legacy maintenance

#### invisible friend

Software Engineer  
Minneapolis, MN

Months of Experience: 16

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

Technologies: Clojure(Script), Node.js, Chrome, Docker, LevelDB, PostgreSQL, Datomic, Redis, AWS, DNS

Keywords: devops, startup, small team, responsibility, decision-making, self-direction

#### Web Developer

Transvoyant  
Minneapolis,MN

Months of Experience: 7

Building on the existing Java-based REST API, I spearheaded development of a new web front end in ClojureScript based on a design mockup. It featured a customizable, data-driven UI with dynamic rendering and mobile-friendly drag-and-drop mechanics.

Technologies: ClojureScript, React, CSS, JSON, REST, AWS, Java, Tomcat

Keywords: modular, customizable, mobile-friendly, devops

## Software Engineer

Frontend Masters  
Savage,MN

Months of Experience: 24

Wrote and developed the iOS app as a contractor periodically from 2013 to 2015 then worked on the app and rearchitecting the backend full-time starting in the fall of 2015.

Technologies: Objective-C, Swift, Core Data, video streaming, Docker, (Lisp Flavoured) Erlang, REST

Keywords: devops, continuous integration, data-driven, documentation

## iOS Engineer

Definest  
Saint Paul,MN

Months of Experience: 6

Wrote and developed a learn-it-later word journal for quickly expanding one's vocabulary.

Technologies: Objective-C, Core Data, Git, Xcode, Photoshop

Keywords: ESL, gesture-driven UI, sole developer

## Web Developer

VoiceHive  
Minneapolis,MN

Months of Experience: 12

Helped implement and maintain client-requested features in a real-time audience interaction web app.

Technologies: PHP, MySQL, HTML, JavaScript, jQuery, CSS, JSON

Keywords: real-time, data-driven

## **EDUCATION**

DEGREE: Associate Degree

Major: Fine Arts (Music)  
Century College, MN

Major: Computer Science  
Metropolitan State University, MN  
Courses: Data Structures, Architecture, Networks

Major: Computer Science  
Century College, MN  
Courses: Programming Fundamentals, OOP, Server-side Applications, Discrete Maths

Major: Electrical Engineering  
University of Minnesota (Twin Cities), MN  
Courses: Physics I, Calc I

## **ADDITIONAL SKILLS**

>10k LoC: (Lisp Flavoured) Erlang | Clojure(Script) | Lisp/Scheme (various)

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>5k LoC: Swift | Java | Objective-C

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>3k LoC: Idris | Haskell | PHP | Perl | Python | JavaScript

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<1k LoC: Elm | PureScript | C | C++ | Go | F# | OCaml | SML | Elixir | Agda | Coq

## **NOTES AND ACTIVITIES**

Functional Geekery: Episode 59 - Eric Bailey

<https://www.functionalgeekery.com/episode-59-eric-bailey/>

I make frequent contributions to open source, mostly in (Lisp Flavoured) Erlang and Nix.

<https://github.com/yurriiq>

Noteworthy examples:

- exercism.io: xclojure, xelisp, xlfe, xracket, xscheme

- prometheus.erl

- elli-lib GitHub org: elli, elli\_{cloudfront,cookie,prometheus,xpblfe}

- Software Foundations (Idris translation)

- LFE: led development on lfe\_doc (documentation support) and clj (Clojure-inspired module)

- LFE libraries: clj (deprecated), exemplar, lmug (namely lmug-elli), lodox, ltest, lutil, rebar plugins (namely lfe-compile)

- Clojure: clj-rethinkdb, clout

- NixOS: lfe, erlang, elixir