

That's my dog, Kira, the Resident Goblin!

Learn more about what I've worked on and my ethos



## Thomas Cannon

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### Profile

I'm a Rubyist of 12+ years, primarily acting as a senior developer and running operations for Noko (Freckle) Time Tracking. I specialize in maintaining and refactoring legacy applications; fixing up existing code to take advantage of the meteoric jumps of modern, evergreen browsers.

I also love doing customer support, developer relations, build-chain improvements, and engineering management.

### Skills & Languages

Ruby, Swift & SwiftUI, HTML, CSS, JavaScript (particularly non-React JavaScript, favoring native browser APIs), PostgreSQL, on-call rotations & incident response, Ansible, passkeys & WebAuthn, Hotwire, Turbo, C#/ .NET, CircleCI, framework development, infrastructure maintenance, refactoring legacy codebases, API design & development, package development and maintenance, remote-first communication as a small business.

### Experience

SENIOR DEVELOPER & OPERATIONS, SLASH 7; TUCSON, AZ — APRIL 2013–FEBRUARY 2023

#### Specific initiatives

- Led the upgrade for a Rails 2.3 LTS application to Rails 7+, including multi-threading support
- Researched & implemented passkeys support for a legacy authentication system, including refactoring the legacy authentication system to support graceful password to passkeys migrations on a per-customer basis
- Designed, implemented, and maintained v2 of our REST API, conforming to industry standards, preventing regressions for 5+ years of infrastructure changes, and implementing a full OAuth 2.0 Provider architecture for integrations
- Built the infrastructure for application-wide audit logs and outgoing webhooks
- Designed & developed The Cheerful Framework; a framework on top of Rails that takes full advantage of native browser features & accessibility affordances, Rails' server-focused approach, and provides excellent developer experience without overwrought build-chains or sacrificing modern JavaScript features
- Built the infrastructure for stable, performant, easy-to-write JavaScript unit & system tests for Rails
- Rebuilt our native Apple apps to share a common codebase, using Swift & SwiftUI, and native APIs for seamless authentication flows.

#### Other Projects & Development work

- Developed & provided support for apps that involved the everlasting problems of recurring date and time zone math
- Maintained our continuous integration & deployment infrastructure

- Acted as engineering & operations manager, reviewing code for a consistent architecture, assigning tasks for larger projects, and providing guidance and documentation for framework design.

#### Sales & Support

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- Handled daily customer support
- Provided concierge sales & onboarding
- Acted as the developer experience liaison and point of contact for our APIs & integrations
- Provided debugging skills and patches to assist the support team

#### LEAD MAINTAINER, RUBY PASSKEYS — JANUARY 2023–PRESENT

- Designed & implemented a Warden strategy for passkeys authentication
- Implemented a Devise strategy for passkeys authentication
- Built a template Rails application for a working example of the Devise strategy usage
- Ongoing advocacy for passkeys adoption across the Ruby ecosystem, including conference CFPs

#### APPLICATION DEVELOPER AND TECHNICAL ASSISTANT, BMW; SPARTANBURG, SC — JANUARY–AUGUST 2012

- Maintained and developed applications for BMW's quality assurance and Metrology department
- Trained contract developers on the details of application development within the department
- Provided support and technical expertise to contract developers as necessary
- Assisted with technical support both within and outside my department as needed

#### CCIT SUPPORT CENTER, CLEMSON UNIVERSITY — 2011–MAY 2013

##### Enterprise Application Developer

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- Responsible for developing and maintaining applications targeted at improving CCIT Helpdesk and Telephone Support
- Participant in plans to upgrade internal ticket system and its effects on custom applications
- Involved in transitioning legacy or custom-built applications to utilize enterprise-wide frameworks and coding styles

##### Help Desk Representative

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- Addressed customer's IT issues, such as: Wireless Network Setup, Software Troubleshooting, and Data Backup
- Used internal ticket tracking system for delegation and management of technical issues
- Represented CCIT to customers of widely varying technical knowledge by providing extensive & courteous service

## Education

Clemson University, Clemson, SC — Bachelor Science of Computer Information Systems, 2010–2015