

# Ian Dillon

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## EDUCATION

### EAST TENNESSEE STATE

#### MS IN COMPUTER SCIENCE

2012 | Johnson City, TN

Thesis: "Connotational Subtyping and Runtime Class Mutability in Ruby"

Member: Upsilon Pi Epsilon (CS Honors)

#### BS IN COMPUTER SCIENCE

2004 | Johnson City, TN

## LINKS

GitHub: [ian-d](#)

Website: [ian-d.com](#)

## SKILLS

### LANGUAGES

Ruby • C# • Python • Pro\*C • VB.NET  
JavaScript • Java

### TECHNOLOGIES

Oracle DBMS\PL/SQL • MS-SQL\T-SQL  
Git • Puppet • \*nix

## EXPERIENCE

### EAST TENNESSEE STATE UNIVERSITY

#### SENIOR DATABASE ADMIN, INTERIM LINUX ADMIN | APRIL 2014 – PRESENT

Install, maintain, and plan database and middleware server and application infrastructure supporting the Banner ERP system and ancillary applications, requiring a broad base of experience with a lot of backend applications and platforms. Includes production use of **Oracle DB 11g/12c**, **Data Guard**, **Oracle FMW**, **MariaDB Galera**, **MS SQL Server**, **Tomcat**, **Apache + PHP-FPM**, and **Redis**.

- Introduced **git** for change tracking in all Banner ERP instances. Later transitioned to **GitLab CE** as more group projects moved away from **TFS**.
- Implemented **Puppet** (plus **Hiera** and **r10k**) to manage ERP Linux servers, standardizing base configuration as well as authoring custom modules for deployment of internal and ellucian middle-tier applications.
- Used **Python** and **Fabric** to codify and automate service password changes across 14+ products, changing a manual 2 hour process to an automated 10 minute process.

#### PROGRAMMER / ANALYST 3 | OCTOBER 2007 – MARCH 2014

Lead analyst in support of the university's Financial Services division, writing custom tools and reports as necessary. Led multiple development projects from requirements gathering through (continued) maintenance.

- Began team transition to **C#**, **ASP.NET MVC**, and **LINQ**.
- Introduced **Ruby** as an alternative reporting language and created the **banner\_jobsub** gem.

#### PROGRAMMER / ANALYST 2 | APRIL 2007 – SEPTEMBER 2007

Developed, maintained, and tested university-wide web applications (**VB .NET**, **ASP.NET**), reports (**Pro\*C**), ad-hoc and scheduled data extracts (**PL/SQL**, **T-SQL**), and customizations to university systems.

### BANC INTRANETS

#### SOFTWARE ENGINEER | JANUARY 2005 – APRIL 2007

Lead developer on BancWorks, a VB.NET and ASP.NET CMS targeted at small financial institutions.

- Introduced source control, centralized bug tracking, full database normalization, object-relational mapping, and run-time layout templating.

## PROJECTS

### GRIPSWEAT

[gripsweat.com](#)

A searchable archive of vinyl record sales & auctions, intended for somewhat niche collectors and as a pricing resource for dealers. Includes images, accepted final prices, and audio clips. Currently contains 7 million+ entries with 400k+ audio clips.

- Uses **Ruby on Rails**, **PostgreSQL**, **Sphinx**, and asynchronous indexing and transcoding via **Amazon SQS**.

### BANNER\_JOB SUB

[ian-d/banner\\_jobsub](#) | [rubygems.org/gems/banner\\_jobsub](#)

A **Ruby** gem to simplify writing custom jobs in Ellucian's Banner ERP. Provides a much simpler and more powerful base for development than the delivered Oracle **Pro\*C** libraries.