CHRISTOPHER TRAMEL

hello@christophertrml.com
321-527-0485

https://github.com/christophertrml

EXPERIENCE

PowerDMS
Senior Software Engineer | *October-2014 – **Present***

- Backend engineer specializing in highly-scalable security-first multi-tenant functional API development. C#, OWIN/Katana, Web API 2.0.
- Led cross-functional team in rebuilding search from the ground up. Removed load on SQL Server by copying denormalized data into ElasticSearch. Created services that audit data to keep polyglot persistence layer in sync. Uses Redis as a makeshift message broker to allow bulk processing of changes from users into ElasticSearch. **Improved percentage of time users found what they searched for the first time from 60% to 90%.**
- Led effort to implement integration testing into the new API product. Created large-scale testing framework in use by all backend developers to test all new work. Lead effort to require testing as a part of "done done". **Improved code coverage of tests from <5% to >75% in 18 months.**
- Responsible for interviewing potential candidates for backend, database, and leadership team.
- Brought multiple shorter-term (3-9 month) projects to improve existing features in the codebase as well as add new features to fruition. This involved estimating, architecture planning, discussing code standards cross-team, prototyping new tools/libraries/frameworks, and building out the code in a maintainable, scalable, and extensible way.
- Worked with auditors, lawyers, and many pieces of the engineering team to help achieve compliance with **CJIS, HIPAA, and SOC2**.
- Managed the creation of **Owin.Scim**, an open source .NET OWIN SCIM library. Lead effort to implement SCIM support using this new open source library in the PowerDMS API.

SpectorSoft
Web Developer | *May-2013 – October 2014*

- Maintained, improved, and developed internal web processes for all SpectorSoft employees.
- Modernize legacy codebase written in Classic ASP into a modular system talking with a RESTful API built in Ruby.
- Optimized legacy SQL queries (both stored procedures and embedded) to improve internal site response times.
- Created from scratch an internal ticketing system with Node.JS, Express, MySQL, and EJS.
- Improved internal development processes by implementing version control (Git), ticketing (Jira), and a centralized logger (Graylog2 / ElasticSearch)

- Successfully integrated a purchased-company's customers, licensing, and purchasing into our own (Including developing from scratch a new WCF licensing service)
- Awarded employee of the quarter for 1st Qtr 2014.

SIDE PROJECTS

- **rs-natural**: Natural language processing library for Rust, **130 stars, 21 forks**. Offers string distance algorithms, ngrams, Naïve Bayes classification, phonetic algorithms, and more.
- **Rassoodock**: Open source alternative to RedGate SQL Source Control. Written in .NET Core

OPEN SOURCE CONTRIBUTIONS

- **jQuery**: Restructured unit tests to remove deprecated QUnit features
- **RedReader**: Added styling for sticky posts to match Reddit's official style
- **Chai**: Multiple bug fixes
- **Rs-es**: Implemented version filter

EDUCATION

University of Central Florida

Bachelors of Science – Statistics | Minor in Mathematics | August 2008 - May 2013

Georgia Tech

Masters of Science – Computer Science | Machine Learning | January 2015 – December 2016

TECHNOLOGIES

- Advanced knowledge: C#, Java, JavaScript, TypeScript, Redis
- Intermediate knowledge: Rust, HTML, CSS, Python, Selenium, AWS, ElasticSearch

PRESENTATIONS

- March 22nd 2016: *Machines That Talk And Listen* – Central Florida Machine Learning Meetup
- April 2nd 2016: *Implementing ElasticSearch in a .NET Stack* – Orlando Code Camp
- April 8th 2017: *NuGet: What, Why, How?* – Orlando Code Camp
- October 13th 2017: *Why Functional Programming Matters* – UCF Programming Language Class
- January 20th 2018: *Software Architecture* – Orlando Backend Devs Meetup
- July 26th, 2018: *Introduction to Rust* – Orlando Backend Devs Meetup