

Summary

- Passionate about software and web development as well as systems and database design.
- Fluent in numerous programming languages and software engineering best-practices including test-driven development and proven software design patterns.
- Thoroughly familiar with web application programming, database design, and distributed systems development and deployment.
- Strong Unix/Linux programming and system administration skills.
- Excellent written and verbal communication skills.

Technical Skills

- Operating Systems: GNU/Linux (Debian/Ubuntu, Centos/RHEL), Mac OSX, Solaris, FreeBSD, Windows
- Primary Languages: JavaScript ES6, Python, Ruby, Perl, PHP, Unix Shell, SQL, HTML/CSS
- Secondary Languages: Java, C/C++, Scala, JSP, ASP.NET
- Web Frameworks: ReactJS, Ruby on Rails, Pyramid, Flask
- Databases: MySQL, PostgreSQL, Oracle, InfluxDB, MongoDB, SQL Server
- DevOps: AWS, Terraform, Jenkins, Concourse, Docker, Vagrant
- Source Control: Git, Perforce, Subversion, CVS

Publications

[The Rails Cookbook](#), O'Reilly Media, Inc.,

January 2007

- Planned, organized, and authored the definitive cookbook on the Ruby on Rails web development framework: The Rails Cookbook, O'Reilly Media, Inc. (ISBN: 9780596527310).

Experience

ftrack / Backlight Creative

November 2021 to October 2023

Senior Back-end Developer

- Contributed at various levels of the ftrack software stack, including back-end, front-end, and client solution solutions / integrations. (<https://www.ftrack.com>)
- Help to convert a large legacy Python2 code-base to Python3 using modern libraries and patterns.
- Deployed and debugged test releases using Docker and Kubernetes.
- Worked closely with the customer success and support teams to help identify and solve complex client-facing engineering problems.

Ryzen Solutions**March 2021 to August 2021**

Software Developer @ Apple

- Supported a large Perl application responsible for the configuration and management of hardware testing sites around the world.
- Worked to help introduce patterns of test-driven development to a legacy code base.

Autodesk, Inc. @ Pivotal Labs, SF**March 2019 to July 2020**

Principal Engineer, Autodesk Drive

- Helped design and build a high-volume, cloud-based data storage and viewing solution for Autodesk's customer's engineering and design data.
- Worked in partnership with Pivotal Labs to practice Extreme Programming (pairing, TDD, etc.), Lean Product Development and User Centered Design methodologies.
- Gained experience with modern Javascript development technologies including: ReactJS, Jest/react-testing-library, MaterialU, Webpack, Fetch API
- Designed and created a build and deploy system using Concourse, AWS, Docker, and Jenkins.

Autodesk, Inc.**April 2016 to February 2019**

Software Engineering Manager, Localization

- Managed an engineering team specializing in neural machine translation (NMT) within Autodesk's localization department.
- Worked to build internal NMT engines trained with Autodesk translation content resulting in greater translation accuracy than what's currently available from external tools such as Google's MT engines.
- Deployed custom NMT engines to handle the translation of content from the Autodesk Knowledge Network (AKN).

Autodesk, Inc.**September 2014 to April 2016**

Senior Software Engineer, Localization

- Worked on a team of internationalization engineering specialists to develop the Globalization as a Service program (a.k.a. GLAAS).
- Performed hands-on globalization of the BIM360 Field web application, consisting of an AngularJS web stack.
- Performed hands-on globalization of the Shotgun production tracking web application, consisting of an Ext.js and React.js application stack.

- Evangelized localization and globalization best-practices to development teams across Autodesk numerous products.

ETWater Systems

May 2010 to September 2014

Senior Software Engineer, Web Applications

- Introduced test-driven development best practices by developing a restful/json api around an Oracle database maintaining 100% test coverage. Technologies: Git, Pyramid (Python), jQuery.
- Introduced system administrative best practices for all Linux servers including the automation of deployments, backups, updates, and system integrity monitoring. Technologies: Ubuntu on AWS, Git, Nagios, Capistrano.

The Walt Disney Company - ImageMovers Digital

January 2008 to December 2010

Senior Technical Director, Production Engineering

- Implemented a standardized development process emphasizing test-driven development, peer code review, and continuous integration testing.
- Deployed and administered numerous core web-based systems including Shotgun (production tracking solution), BuildBot (continuous integration testing), Trac (issue tracking), Plone (content management).
- Developed software for asset management, tool publishing, and numerous other production and infrastructure requirements. Technologies: Python, Pylons, MySQL, PostgreSQL.
- Delivered informational presentations on topics including common development tools and software engineering best-practices.

Tuple Shop Inc., Ruby on Rails Consulting

June 2006 to September 2008

Founder, Lead Developer

- Implemented a complex medical claims tracking system from spec (<http://www.comppartners.com>). Deployed and maintained development and production instances on RHEL servers. Technologies: Rails, MySQL, XML, RHEL Linux.
- Designed and implemented a custom order tracking system for a high-end, international furniture company (<http://www.huttonhome.com/>). Technologies: Rails, Python, MySQL, Debian Linux.
- Implemented an internal asset and project tracking system. Optimized the interface for the iPhone web clients. (<http://mactroopers.com/>). Technologies: Rails, MySQL.

O'Reilly Media, Inc.**January 2005 to August 2007**

Software Engineer

- Worked with numerous groups throughout the organization, identifying bottlenecks in the book production pipeline and creating software to monitor and streamline those areas identified. Technologies: Python, Perl, Unix Shell, MySQL.
- Development and support of external O'Reilly sites and the internal product tracking application. Technologies: mod_perl, MySQL.
- Maintained and developed a large relational product database (300+ tables). Technologies: MySQL.

Industrial Light & Magic**December 2003 to January 2005**

Webmaster / Developer

- Administered Internet sites including: Ilm.com, Skysound.com and OpenEXR.com.
- Developed and administered ILM's extensive Intranet, including a custom content management system and a vast array of production support applications.
- Responsibilities included: Administration of a multi-user UNIX environment: Access rights, quota control, and resource management.
- Developed, maintained and supported numerous database driven web applications. Technologies: Perl, Servlets, Python, Oracle, PostgreSQL.
- Responsibilities included hardware support for number of Solaris and Linux servers including external hardware RAID over a gigabit network.

Education

Bachelor of Arts Degree in Music, Jazz Concentration, Sonoma State University, 1998