# Star Morin

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#### Summary

With over 20 years of experience in systems and software development, I specialize in full-stack web development, back-end API and data pipeline development, ad-hoc data reporting, schema design, prototyping, digital media transformations, and process automation. I'm proficient in cloud computing with Amazon AWS and OpenStack and have the ability to quickly come up to speed on large code bases and with widely varied platform architectures in various languages.

My language and tool expertise include Java, Kotlin, PHP, Perl, JavaScript (Browser, NodeJS, and Lambda), Python, C, pure data, processing, Eclipse, and Vim. I have 15 years of experience with MySQL (standard and Percona) and some experience with Postgres, Microsoft SQL Server, and Oracle. I'm well versed at schema analysis and refactoring. I have 25 years of experience with Linux (rpm/rpmlib and apt-based platforms with a preference for Debian derivatives). I'm adept at creating enterprise-wide solutions with AWS service offerings, OpenStack and have recently added Docker to my experienced toolkit.

#### Experience

Senior Software Engineer

ICF Next - Central New Jersey, Bethesda Maryland

Jun 2022 - Mar 2023 (10 months, 6 months under contract with Fortitude Systems)

Provided back-end application development, unit testing and release management for the ClinicalTrials.gov team at the National Institute of Health using Kotlin, Java and Spring with Docker and OpenShift, Gitlab/Github.

Added new endpoints for the PRS adding support for new unimplemented PRS application messages.

Researched and designed solutions for XSS and embedded code exploit mitigation: Extended string

mapping of RequestParam and PathParams to add OWASP XSS mitigation to the standard spring

automatic handling of user-provided strings. Extended the Jackson Object Mapper to support pre de-

serialization exploit mitigation per OWASP guidelines using a per-field custom annotation for object

definitions.

Participated in daily scrums, code reviews, automated testing, and continuous integration and delivery processes to ensure software quality and reliability.

Provided guidance and inital implementation of OIDC/OAuth2 support for Login.gov. Researched

and provided design recommendations for the new Single Page Application design using the IETF

recommend patterns for SPA / OIDC integration.

Software Engineer

Lockheed Martin – Central New Jersey, Grand Prairie TX

Oct 2020 - Apr 2022 (1 year 7 months)

Providing software development and supporting sustainment of the Site Controller Application on the

Energy Storage System / ESUs using Java and a custom threaded application server developed by Lockheed Martin utilizing RabbitMQ and MongoDB.

Software Engineer

Lockheed Martin Energy / Apex Systems - Central and South New Jersey

Apr 2019 - Sep 2020 (1 year 6 months)

Provided architecture design and development of a "serverless" application, notifications system and telemetry time-series database for a fleet of Lockheed Martin Energy Storage Systems using ElasticSearch, Kibana, React and NodeJS on AWS with backend provided by AWS Lambda, SES and SNS.

This application provided instant fleet status overview and user-defined alarm-level specific customizable sms or smtp notifications. I also designed and developed a user-defined custom reporting engine and UI for any telemetry point, at any level for one or all Energy Storage Systems state from the time series database for any period.

Senior Software Engineer

Rakuten Advertising – New York, New York

Apr 2016 - Apr 2018 (2 years 1 month)

Provided development and research for Rakuten’s Ad tracking and attribution services with tasks divided 60% development, 30% chef / systems using Java, Tomcat, Kafka, ActiveMQ, BouncyCastle, OpenStack and Chef.

I quickly learned and extended a large code base over a broad range of technologies and platform tools providing custom software development for json handling, custom ad parameters, new schema changes, data coherency components and more. Created custom in-memory integration tools for Kafka, Flume and custom plugins. Wrote extensive testing in Junit / Easkymock.

Developed scripts to automate run-time configuration and server creation supporting both OpenStack

and AWS. Created tools and selected technologies for Performance testing and cross-platform data validity testing. API proof of concept, development , test development and documentation using Undertow, Swagger, VisualVM and Jmeter.

Senior Web Developer / DevOps

Monotype – Central New Jersey, Boston Massachusetts, Berlin Germany

Aug 2014 - Jan 2016 (1 year 6 months)

Provided software development and DevOps for Monotype using Ruby, Python, PHP, Perl, Amazon web services.

Managed 70+ servers and services for a variety of business purposes on AWS. Initiated our migration to Chef. Continued development and maintenance of the Font Render Service. Worked with remote development teams for integration of other properties with the render service.

Senior Software Engineer

FontShop – San Francisco CA, Berlin Germany

May 2009 - Jan 2016 (6 years 9 months)

Provided software development and research spikes for Fontshop International’s San Francisco Office using PHP, Perl, Python, Javascript, CSS, D3.js, raphael.js, SVG, Amazon Web Services.

Assisted with our Internationalization multi-country site specific web presence re-architecture. Designed and Implemented our Product Data ingestion API. Served as primary support developer and maintainer of the Font Rendering Service. Developed and designed site-specific installations for various programs using new media software and tools.

Mentored and managed junior staff.

Led the effort to migrate our development model to Scrum/Agile (Scrumban).

Software Developer

Singlefeed – San Francisco CA

2008 - 2008 (less than a year)

Provided bug fixes, library code additions, implementing recurrent customer billing and an S3-based

backup solution using Perl and Amazon Web Services.

Lead Developer

Digital Rights Agency

Apr 2003 - Sep 2006 (3 years 6 months)

I served as Lead Developer and Systems Engineer for a digital music distribution company for Indie Labels using Java, Perl, XML and mencoder.

Created architecture, design and development of a set of custom server services for distributed parallel trans-coding, packaging and delivery of Independent Music. Specified and assembled 13TB multi-channel high performance, redundant network storage solution. Designed and developed the GUI and controller software for our 300 cd/dvd ingestion solution. Extended and then re-developed our client billing and royalties software, as well as our ad-hoc reporting ui for labels.

Engineer

Muse Research – E. Menlo Park CA

Star Morin - page 3Jan 2003 - Sep 2003 (9 months)

Provided systems administration, programming, and system architecture work for a music industry

startup dedicated to creating a next generation Linux-based audio hardware device using Perl, C, rpmlib, xml-rpc, linux sys internals and rt patches.

Web Developer

Penguin Computing

2001 - 2002 (1 year)

Provided services ads a Web / Database / Systems programmer for a Linux-specialized server hardware vendor. Added sections and features to the System Configurator. Provided post 9/11 layoff contract application development where I designed and programmed Penguin's CRM / help desk system.

Programmer / Analyst II

University of California, San Francisco CA

Oct 1999 - Sep 2000 (1 year)

Technology generalist for the ITS division of the UCSF Department of Medicine.

\* Created the ITS help desk ticketing system.

\* Created multi-departmental web publishing system with NetAtalk and Samba.

\* Created web calender system for Continuing Medical Education department.

\* Created courses and led instruction of Dreamweaver and Fireworks for departmental webmasters.

Technologies: Perl, Self-designed CMS, Dreamweaver, Fireworks, sun, linux.

Instructor / Network Administrator

Learn iT! Computer Training – San Francisco CA

Jul 1996 - May 1999 (2 years 11 months)

Instruction, curriculum development (windows, windows NT, HTML, CGI, UNIX) and Network

Administration.

Founding Partner

Mission Control Consulting LLC

1998 - 1999 (1 year)

MCC provided software and IT consulting for insurance, public relations and marketing firms in the Bay Area. My role as was to provided direction to the underlying technologies of the service offerings of the company (LAMP). Designed and programmed the content management system used in most of the companies projects in mod\_perl/perl/apache. Managed day-to-day operations of the development servers and in-house systems. Provided on-site services to a variety of clients for tasks such as server management, network installation, systems integration, and application development. Participated in planning and architecture for all major web / application projects for the company.

Tele-Sales / Digital Handyman

Unicorn Marketing – San Francisco CA

1995 - 1996 (1 year)

Subscription Renewal calling for the George Putnam Turnaround Letter of stock advisories. Windows

Network installation and management.

**Education**

City College of San Francisco

None, Computer Science

1994 - 1997

General Education, C Programming and Unix

**Licenses & Certifications**

Exam 70-059. Implementing and Supporting Microsoft Windows 95 - Microsoft

Corporation

**Skills**

Spring Framework • Apache Flume • Apache Kafka • ActiveMQ • Amazon EC2 • AWS Lambda •

Node.js • Java • Node.js • Perl