

# Mikhail (Misha) Etin

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## SUMMARY

Senior Software Developer with a broad technical background and extensive expertise in software development methodologies, architecture, and system design. Proficient in an array of programming languages and frameworks, coupled with hands-on experience in managing critical systems and leading high-performance teams.

## TECHNICAL SKILLS

<b>Languages:</b>	Java, Java Spring, C++, Perl, SQL, XML, XSLT, Python
<b>Data Platforms:</b>	Oracle, MySQL
<b>Methodologies:</b>	Agile, Waterfall, Iterative Development
<b>Cloud Technologies:</b>	AWS

## PROFESSIONAL EXPERIENCE

### Senior Software Developer

**FANNIE MAE**

**06/2021 – 10/2023**

As a member of Credit Enhancement Transaction System (CETS) team, I supported development and maintenance of CETS batch processing, including production support.

- Added new and updated existing verification rules.
- Updated search queries for new requirements.
- Performed execution of production batch processes and supported issues resolutions.

*Technical Environment: Java Spring, AWS Services, Oracle*

### Lead Software Developer / Portfolio Manager

**FANNIE MAE**

**07/2015 – 05/2021**

Managed design, development, and maintenance of Enterprise Risk Management (ERM) applications, including Valuation Net (VN) and Portfolio Risk Management Application (PRiMA). VN and PRiMA are critical Fannie Mae's systems that support multiple clients including Risk Management, Single and Multi-Family business units, Treasury, Middle office Derivative Pricing and other Financial Reporting applications. VN was designed as a collection of core financial models and algorithms, including prepayment models, default models, pricing and accounting algorithms, and financial simulation techniques. PRiMA was designed to use VN for whole portfolio valuations and generating business reports.

*Technical Environment: Java, C++, R, Perl, AWS, UNIX (Solaris), Linux (SUSE), Oracle*

### Technical Architect, IRS Enterprise Architecture Team

**Bithop Systems, Inc.**

**08/2013 – 06/2015**

Supported IRS Enterprise Architecture Office covering Affordable Care Act by developing ACA program architecture and associated ELC documentation. Responsible for logical architecture and design areas of the ACA Program and Information Sharing and Reporting (IS&R) and ACA Verification Service (AVS) projects.

**Architect IV  
FANNIE MAE**

**03/2011 – 06/2013**

Served as architecture expert on Enterprise Architecture tool (MEGA Suite). Implemented ETL automated data transfers between multiple data sources and MEGA.

Consulted with disparate Centers of Excellence and project development teams to eliminate redundancies within Fannie Mae's applications.

*Technical Environment: MEGA Script, Java, Unix, Oracle*

**Applications Development Manager**

**FANNIE MAE**

**06/2009 – 03/2011**

Managed Independent Price Verification (IPV) development team, consisting of twelve developers.

- Responsible for resource and budget planning, customer relationship management, integrity of development processes, and delivery timeliness and quality.
- Implemented agile development methodology for Assets Price Verification system, increasing customers' satisfaction with development process.
- Built highly effective development team that implemented Liabilities Price Verification system on time, despite unstable requirements and negative business perspective.

*Technical Environment: Java, Unix, Oracle*

**Team Lead / Development Manager**

**FANNIE MAE**

**06/2006 – 06/2009**

Managed Valuation Net *Quick Strike* team.

- Led team to successful implementation of Hedge Accounting application with a remarkably short deadline (one month rather than the usual six) and uncertain requirements.
- Oversaw Market Room applications' absorption of VN service.
- Led VN service implementation for Portfolio Risk Management and Credit Policy teams.

*Technical Environment: Java, C++, XSLT, Perl, UNIX (Solaris), Oracle*

**Senior Software Engineer**

**FANNIE MAE**

**02/2001 – 06/2006**

Led the team that designed and developed Valuation Net's service and distribution layers. The team's focus was ensuring the efficiency of VN's infrastructure in a heterogeneous environment.

- Led development of Financial Reporting application for Fannie Mae's Restatement project.
- Converted VN distribution layers from Unix-based scripts to an XML-based web service.
- Designed and implemented automated cash flow aggregation service.
- Managed VN enhancements implementation requisite for improved models and algorithms.

*Technical Environment: Java, C++, XSLT, Perl, UNIX (Solaris), Oracle*

## EDUCATION

M.S. in Computer Science	Johns Hopkins University	Baltimore, MD
M.S. in Mathematics (Magna cum Laude)	<i>Belarusian University</i>	Minsk, Belarus