

Hassan Alvarado

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SUMMARY

Senior Application Developer with 11 years of experience delivering C# and Java solutions across **fixed income** and securitized products technology. Builds and supports .NET Framework, .NET Core, **ASP.NET MVC**, RESTful APIs, and SQL Server applications that serve trading, operations, risk, pricing, valuation, market data, settlement, and regulatory reporting teams. Works closely with stakeholders to shape requirements, verify controls, investigate production exceptions, and improve recurring workflows. Hands on experience covers MBS, ABS, CMBS, CMO, Agency and **Non Agency Securities, Pass Through Securities**, trade lifecycle processing, Bloomberg, and security master ecosystems. Career growth reflects broader ownership, technical judgment, mentoring, documentation, and cross functional delivery. Ready to help a financial technology team improve reliability, performance, and service quality across critical structured products operations.

EXPERIENCE

Senior Application Developer, Securitized Products Technology

July 2022 - Present

AlderPeak Securities Technology

Newark, NJ

Owns enterprise applications supporting fixed income trading, operations, pricing, **market data**, settlement, and regulatory workflows. Leads production analysis, stakeholder delivery, technical documentation, quality controls, and mentoring across C# and Java platforms.

- Modernized **C#** services across **MBS** workflows, reducing recurring support issues for operations users.
- Optimized **SQL Server** procedures supporting **pricing** feeds, improving query response during trading peaks.
- Investigated Bloomberg data exceptions through field analysis, restoring accurate **security master** records.
- Translated trader requirements into RESTful API controls, validated results before production release.
- Mentored developers through root cause reviews, documentation sessions, and practical production guidance.

Application Development Lead, Fixed Income Platforms

March 2019 - June 2022

BlueRidge Capital Markets

New York, NY

Led application delivery for fixed income platforms serving **structured products**, trade lifecycle processing, valuation, and operational reporting. Coordinated developers and business partners while guiding design decisions, release quality, production support, and knowledge sharing.

- Directed **.NET Core** enhancements for ABS **trade lifecycle** processing, strengthening downstream operational accuracy.
- Refined T SQL queries supporting **CMBS valuation** reports, shortening analyst review cycles.
- Connected **RESTful APIs** with market data services, improving consistency across pricing workflows.
- Documented technical decisions and procedures, giving managers clearer control over production changes.
- Coordinated cross functional testing for CMO settlement events, resolving exceptions before release.

Application Developer, Structured Products Technology

August 2017 - February 2019

Granite Harbor Investments

Stamford, CT

Developed enterprise applications for securitized products operations, with emphasis on C#, Java, SQL Server, pricing, valuation, and **regulatory reporting**. Converted business needs into tested changes while supporting analysts, operations teams, and production users.

- Built **ASP.NET MVC** screens for **Agency Securities** workflows, improving visibility into trade status.
- Reworked **stored procedures** for MBS cashflows, supporting cleaner settlement and reporting outputs.
- Resolved **Pass Through Securities** exceptions using transaction evidence and production field data.
- Created test procedures for valuation changes, giving **operations** teams dependable release checks.
- Prepared user guidance for security master updates, reducing repeated questions during daily support.

Software Developer, Financial Applications

July 2015 - July 2017

Pinecrest Financial Systems

Princeton, NJ

Built and supported early career financial applications serving trade processing, reporting, and operational controls. Gained practical experience with C#, Java, **.NET Framework**, SQL Server, requirements analysis, testing, documentation, and stakeholder support.

- Delivered **C#** enhancements for **trade processing** screens, helping users resolve daily exceptions faster.
- Applied **Java** utilities to recurring **reporting** tasks, improving consistency across operational files.
- Created **SQL Server** procedures for structured product reports, supporting timely manager reviews.
- Converted stakeholder requests into documented requirements and test cases for controlled delivery.
- Supported production investigations with senior engineers, turning recurring defects into permanent fixes.

PROJECTS

Structured Products Lifecycle Modernization 📅 2026

Reworked lifecycle services across MBS, ABS, CMBS, and CMO workflows. Connected APIs, security master data, pricing inputs, settlement events, and regulatory reporting checks through clearer controls and tested release procedures.

Fixed Income Pricing Data Controls 📅 2024

Built a control framework for Bloomberg and market data validation. Compared incoming fields with security master records, documented exceptions, and helped valuation users act on reliable pricing information.

SQL Server Performance Improvement 📅 2021

Reviewed query plans and stored procedures supporting trade and valuation reporting. Applied targeted query optimization, documented decisions, and improved operational confidence during high volume processing.

LEADERSHIP & AWARDS

- Recognized by senior stakeholders for dependable production support across fixed income applications.
- Selected to mentor developers and share practical guidance on C#, SQL Server, and release quality.
- Received team recognition for clear documentation that improved operational decisions during complex exceptions.

EDUCATION

Bachelor's Degree in Computer Science

Rutgers University GPA: 3.5

Coursework: Object Oriented Programming, Database Systems, Software Engineering, Algorithms

2015

New Brunswick, NJ

CERTIFICATIONS

- Microsoft Certified: Azure Developer Associate 📅 2024
- Microsoft Certified: .NET Developer 📅 2022

TECHNICAL SKILLS

- **Programming Languages:** C#, Java, T-SQL
- **.NET Development:** .NET Framework, .NET Core, ASP.NET MVC
- **Web Services:** RESTful APIs, JSON, HTTP
- **Database Systems:** SQL Server, stored procedures, query plans
- **Fixed Income Products:** MBS, ABS, CMBS
- **Structured Products:** CMO, Pass Through Securities, Agency Securities
- **Trading Operations:** Trade lifecycle, settlement, cashflows
- **Analytics Workflows:** Pricing, valuation, market data
- **Financial Data Platforms:** Bloomberg, security master, data feeds
- **Reporting Controls:** Regulatory reporting, validation, audit trails

SKILLS

- | | | | |
|------------------|----------------|----------------------|-------------------|
| • C# | • ASP.NET MVC | • Stored procedures | • ABS |
| • Java | • RESTful APIs | • Query optimization | • CMBS |
| • .NET Framework | • SQL Server | • Fixed Income | • Trade lifecycle |
| • .NET Core | • T-SQL | • MBS | |

PROFESSIONAL AFFILIATIONS

- Member, Association for Financial Professionals, supporting continued knowledge in financial technology.
- Member, New York City Technology Professionals Network, sharing practices across enterprise application delivery.

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST