

Jay Crowley

Senior Software Engineer



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Charlotte, NC



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Experienced software developer professional with expertise in all phases of the software development lifecycle on multiple stacks. Excellent written and verbal communication skills. Experience with Azure and AWS cloud solutions.

Skills

Languages

Python
Java
C#
C++
HTML/CSS/Javascript

Frameworks

AWS
Azure
sklearn
.Net
Spring Boot
Angular
React
Flask
Django

Tools

Pycharm
IntelliJ
Visual Studio
VS Code
Git
Node/Npm

Education

Rensselaer Polytechnic Institute Troy, NY
Bachelor of Science in
Computer Science

Experience

Indeed.com

Charlotte, NC

Sept 2022 - Present

Software Engineer II

Data Science Platform Team

Design and implementation of a machine learning platform, with ML Ops Training and Batch Pipelines, and Inference deployment services for Data Scientists to train, deploy and monitor machine learning models with minimal effort.

Technologies:

Python, Terraform, Docker, Kubernetes, AWS SageMaker

Kingsmen Software

Charlotte, NC

May 2021 - Sept 2022

Senior Software Engineer

Senior Developer for Azure cloud software solutions consultancy.

Avid Exchange, Inc.

Cloud Software Developer

Implementation of Azure cloud Virtual Credit Card microservices to support payment processing. Integration of new Virtual Credit Card processor, on legacy on prem system and Azure services.

Technologies: C#, .Net Core, Azure, App Services, Function Apps, Service Bus, Terraform, Cosmos DB, SQL Server

Bank of America

Charlotte, NC

Nov 2005 - Sep 2015, Oct 2020 - May 2021

London, UK

Sep 2015 - Sep 2020

Director, Senior Engineer

Architect, Developer, and Team Manager in several projects in Capital Markets Trading and Analytics.

Integrated Hedging System

Backend Developer

Debt Hedging Program management system to support bank capital hedging, valuations and accounting. Designed and implemented a reporting system for valuation results on hedging effectiveness.

Technologies:

Python, Quartz, AMPS, Flask

Back Office Funding

Full Stack Developer

Development of Back Office Funding application, replacing legacy systems. Provides automated and manual funding for world-wide accounts in multiple currencies. Processing roughly \$10B per day.

Technologies:

Java, Spring Boot, Kafka, Hibernate, Oracle, Angular

Previous Experience

Bank of America (Cont.)

LIBOR Submission Calculator

Architect/Developer

Primary architect and developer of LIBOR rate calculator and submission application. Supports regulatory mandated rate waterfall calculator, submission workflow and evidence management for LIBOR benchmark contributions.

Technologies:

Python, Quartz, and Flask

QzFunding Trade Capture and Cash Forecasting

Tech Lead

Scrum team lead, team of 10, for FX trade capture with straight-through processing to multiple downstream systems. Architecture and development of trade blotters, and global cash forecasting reporting tools. QzFunding is the target trade capture application on the Quartz trading platform for domestic and international trading desks in London and throughout Asia for Global Funding and Corporate Investments. Member of Corporate Treasury and Investments Quartz Core team, security approver and training group.

Technologies:

Python, Quartz

Oscar, Bond Structuring Analytics

Application Manager/Developer

Manager, Director Promotions

Manager of development and support team, 4 developers, for mortgage and asset backed securities structuring analytics tool, primarily for RMBS, ABS and CMBS sectors. Performs cash flow analytics of collateral and bond performance for pricing, yields and risk for original issue of bond sales. Expanded application into new markets, including complex Student Loan models, negative amortization and teaser payment RMBS, shipping containers, and others. Managed major projects to migrate application to platform independent architecture for Windows and Linux, integration into mortgage trading quantitative library.

Technologies:

C++, MFC, Visual Studio 2010, Linux/G++, Roguewave Stingray

Intercede, Inc

Charlotte, NC

Director of Information Technology

Lead Architect and Developer of misconduct reporting tool and case management system. Product allows clients to provide employees, contractors and vendors with safe, anonymous reporting tool with management tools and analytics for HR, Legal and Executive teams to manage liability risk and resolution processes.

Technologies:

ASP.Net, C#, MS SQL Server 2000

Upper Echelon LLC

Charlotte, NC

Partner

Architecture and Development of custom business software solutions to a variety of clients. Solutions utilized a variety of different technology platforms including Microsoft's C# and .Net Platform, Java, Web and XML technologies.

Approach, Inc.

Valhalla, NY

Senior Consultant

Senior Developer for Microsoft Solutions Provider for outsourced business software solutions. Client/Server and Web Based N-Tier projects with durations between 1 and 12 months. All projects used cutting edge Microsoft solutions.

IBM Corporation

Yorktown Heights, NY

Senior Associate Programmer

Application implementation for desktop deployment and support systems for IBM Research division.