

Dominic J. Catalano

dom@catalano.engineering
856-981-5522

www.catalano.engineering
Boston, MA

Summary

Software Engineer with 3 years of experience architecting complex software applications with strong data manipulation skills, a talent for quickly grasping and becoming proficient in new technologies, and the ability to convey complex technologies from a business perspective.

Societies & Organizations

IEEE, Eta Kappa Nu, Tau Beta Pi, Delta Tau Delta (Founding Father, SAA), Acting Out (Director, VP of Finance)

Skills

Core Languages

C#, Java, Python, C, C++, MATLAB

Front End

HTML5, JavaScript, jQuery, AJAX, CSS, CSS3, ASP, ASPX, Fusion Charts, Google Charts, PHP, ColdFusion

Back End & Big Data

Microsoft SQL Server, SSRS, MySQL, .NET, MVC, Razor, Django, VB, Apache Spark, MongoDB, Hadoop, MapReduce

High Performance Computing

OpenMP, MPI, CUDA, OpenACC

Cloud Platforms

Amazon Web Services (AWS), Microsoft Azure

Software

Visual Studio, SQL Management Studio, Eclipse, IntelliJ, Github, Business Objects, Sharepoint, Team Foundation Server, IIS

Operating Systems

Linux/Unix, Windows, MacOS

Misc

Project Management, public speaking, Software Development Life Cycle (SDLC), agile development, SCRUM development, devOps, technical documentation (for business and technical users), effective communication and teamwork

Employment Experience

Osprey Software Solutions, Waltham, MA

Software Engineer January 2015-August 2016

Technologies: C#, .Net, SQL, CSS, JavaScript, Amazon Web Services, Azure
Developed full stack, business-essential solutions for finance, energy, public utilities, education, and insurance clients. These multiplatform solutions were successfully developed in C# coupled with web (.NET, CSS3, JavaScript), android, and desktop based applications as part of a SCRUM team.

- Developed a data analytics and reporting engine, a BI visualization tool, a utility monitoring and maintenance Android application, a high-load insurance quoting application, and a loan tracking system.
- Improved reporting services performance 10x and streamlined revenue tracking and reporting.
- Built strong relationships with clients throughout proposal, design, and product review.
- Functioned in all roles throughout the project lifecycle and gained strong exposure to product lifecycle management.
- Migrated and implemented application using Azure and AWS cloud-based platforms.
- Responsible for the design, architecture, development, deployment, unit testing, maintenance, and evaluation of high-availability, high-volume software applications.

Northeastern University

Masters Assistant January 2016-July 2016

Technologies: C#, Java, MySQL, Hadoop, MongoDB
Assisted a course on Database Design through the development of assignments and course material.

- Provided direction and mentorship to students.
- Covered SQL in depth with additional assignments in noSQL database systems like Hadoop and MongoDB.
- Advised in the direction and goals set forth in the course.

Bose Corporation

Software Engineer Coop January 2014-June 2014

Technologies: C#, VB.Net, SQL
Developed, maintained, and supported a high availability global manufacturing execution applications built in C#, VB.NET, and SQL.

- Provided technical documentation for business users.
- Facilitated cross-functional team development.
- Gained Business Objects and project management exposure and training.

Education

Master of Science, Computer Engineering

Northeastern University, Boston MA May 2017

Concentration in Computer Vision, Machine Learning, and Algorithms

GPA: 3.95 Honors: Dean's List

Bachelor of Science, Computer Engineering

Northeastern University, Boston MA May 2017

Minor in Business Administration

GPA: 3.85 Honors: Dean's List

Research

The Nearly Optimal N-ary Search Tree-Master's Thesis

"A Fresh Perspective on Total Cost of Ownership Models for Flash Storage in Datacenters"-published via CloudCom 2016