JUSTIN **MCCLAIN**

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Mission-Driven | Passionate Learner | Solid Developer | AI Tinkerer

EDUCATION

EXPECTED GRADUATION JULY 2024
M.S. SOFTWARE DEVELOPMENT, BOSTON UNIVERSITY

Cumulative GPA: 3.90
Completed: Data Structures & Algorithms · Information Structures · Advanced Programming Techniques · Artificial Intelligence · Advanced Machine Learning · Systems Analysis & Design · Design Patterns
Finishing Up: Web Application Development

MAY 2017
B.S. B.A. MANAGEMENT INFORMATION SYSTEMS, INDIANA INST. TECHNOLOGY

Cumulative GPA: 3.91
Graduated Suma Cum Laude, Honors
Database Management · Database Design · Networking · Programming · Project Management · Enterprise Resource Planning (ERP) · Systems Analysis & Design · Corp Finance · Accounting

MAY 2015
A.S. B.A BUSINESS MANAGEMENT, INDIANA INSTITUTE OF TECHNOLOGY

Cumulative GPA: 3.9
Organizational Leadership · Statistical Problem Solving · Economics · Business Law · Business Management · Human Resources Management

EXPERIENCE

MAY 2023 - CURRENT
IT APPS PROGRAMMER LEAD, EXTERNAL DATA (.NET) PROGRESSIVE INSURANCE

• Refactor, create, update, and maintain RESTful web APIs in .Net 6 & .Net Framework 4.x
• Participate in pull requests and live code reviews to ensure code quality in source code
• Work as project champion on projects, to assist TAO in gathering requirements, estimate work, and plan delivery.
• Provided mentoring to developers in object oriented programming, CI/CD pipelines and more.

DEC 2021 – MAY 2023
CLOUD DEVELOPER (AZURE), IT APPS PROGRAMMER LEAD PROGRESSIVE INSURANCE (FORMERLY PROTECTIVE)

Engaged collaboratively with a diverse team of developers, consultants, and architects to replace antiquated integration systems with a modernized, serverless, event-driven architecture. Key accomplishments include:

• Spearheaded the evaluation, proof of concept (POC), and migration from Apigee to Azure API Management (APIM), considering MuleSoft as an alternative.
• Engineered application integrations utilizing Azure Cloud Functions and App Services.
• Employed HTTP triggers, Service Bus Messaging (Queue, Topics), and Timer triggers to orchestrate logic execution.
• Developed .Net 6 (Core) projects, leveraging Dependency Injection for logging, configuration, and service utilization within Azure Functions and App Services. • Established Azure Key Vault for secure storage and retrieval of application secrets.
• Integrated applications with vendor APIs and Cosmos Database to utilize as data sources.
• Orchestrated Azure Functions to ensure seamless operation completion.
• Developed a .Net Framework Web API proxy to bridge integration with a Legacy CRM system. • Led the exploration and POC for transitioning from Apigee to MuleSoft or Azure API Management, coordinating with the MuleSoft team to gauge capabilities.
• Subsequently led the migration initiative from Apigee to Azure APIM.
• Coded Azure APIM policies for authorization token validation (JWT), identity provider callouts (Okta and custom), error management, and request forwarding to designated endpoints with C# expressions in APIM.
• Added Power App integration to alert users of production incidents, from Azure Monitor
• Devised reusable Policy Fragments for enhanced manageability of Azure APIM Policies.
• Initiated a Azure Pipeline Template POC repository, promoting Protective inner-source practices.
• Integrated SonarQube in project pipelines (YAML) for code analysis and coverage report generation.
• Upheld a standard of 70% or higher code coverage across all projects, conducting unit tests with XUnit, and coached team members on strategies to maintain this standard.
• Diligently documented and illustrated work on the team/company's Confluence platform.
• Actively participated in sprint planning, reviews, and retrospectives, providing work estimates to ensure streamlined project progression.

SEP 2020 – DEC 2021
SOFTWARE ENGINEER, TAVANT
Delivered targeted training and hands-on workshops to bolster team expertise in various technical domains. Led the development of a robust C# .Net-based plugin library for use within Ellie Mae Encompass Loan Origination System in a dynamic, agile setting. Coordinated daily standups and led customer-centric feature demonstrations. Key contributions include:

• Conducted developmental training sessions for the team on Encompass SDK and Encompass API within .Net Framework, including reverse engineering of .net CLR binaries, thorough walkthroughs of SDK and API documentation, and live workshop tutorials.
• Facilitated improvement training on Unit Testing utilizing NUnit in a live workshop setting.
• Delivered workshop-style training on Object Oriented Programming and SOLID principles to domain-trained developers.
• Engineered a C# .Net-based Plugin Architecture for feature additions and enhancements within the Ellie Mae Encompass Loan Origination System.
• Led the daily standup meetings to foster collaboration with the offshore team.
• Employed .Net Framework 4.7.2 in crafting a WinForms-based plugin architecture.

• Directed customer-facing feature demonstrations and design sessions, establishing a clear channel of communication and feedback.

FEB 2020 – SEP 2020
SOFTWARE ENGINEER, LEADERONE FINANCIAL

Led the design and implementation of robust database and web solutions, enhancing operational efficiency and enabling automated processes within Ellie Mae Encompass environment. Mentored junior developers, fostering their growth in syntax and design principles. Spearheaded the automation of critical processes to drive cost reduction and efficiency improvements. Noteworthy contributions encompass:

• Developed a SQL Server database to house Ellie Mae Encompass Pipeline Data, with automatic population from scheduled console app runs, leveraging .Net Framework 4.7.2 for the Encompass SDK dependency and Rest Sharp for API calls.
• Created an internal .Net Core 3.1 MVC website enabling company users to execute automated tasks such as updating servicing vendor loan numbers and maintaining price exceptions, interfacing with the Encompass Developer Connect API and integrating with our SQL database. Utilized Rest Sharp and Newton Soft for requests and responses.
• Replaced vendor site with a custom reporting website using .Net Core MVC 3.1 with Razor pages, integrating SQL with Plotly.js for visual charting, and significantly reusing partial views to streamline report element creation.
• Built Encompass automations for scheduled loan updates, employing the Encompass SDK, Developer Connect API, hosted on Azure VM, with API calls handled through Rest Sharp and Newton Soft.
• Coached junior developers on syntax, design, and transitioning from Python to C# and .Net Core, monitoring their progress through Pluralsight tutorials.
• Automated several high-impact processes using .Net Framework 4.7.2, .Net Core 3.1, and Python 3, markedly reducing costs and boosting efficiency.

JUN 2019 – FEB 2020
SOFTWARE ENGINEER, NUCOR BUILDINGS GROUP

• Maintain legacy systems and refactor for extension. Specifically, BomsNet Bill of Materials ordering System, .Net Framework 4.6-4.7 WinForms
• Heavily trained on SOLID principles, and OOP design practices for refactoring
• Contributed to migration from TFS to Azure git repos, on Git-Flow branching strategy
• Volunteered for CANEI group for continual improvement in business processes, leadership, and environmental policies. Developed idea and POC for "Clean Sourcing" Scoring Plan (.Net Blazor)
• Worked in paired programming sessions for critical updates to BomsNet BOM system
• Performed developer regression Testing with each release staged for production
• Developed in C#, VB.Net, SQL Server, Visual Studio 2019 & 2017, as well as other environments
• Worked in SCRUM environment, being a top contributor to refactoring tasks

NOV 2018 – JUN 2019
SOFTWARE ENGINEER, EQUITY PRIME MORTGAGE

• Assessed state of development environment, quickly implemented Git Source control, set up and employed Azure DevOps for tracking sprint work, corrected test system, and brought it up to date with PI scrubbed production environment data

- Created Azure SQL database to house reporting data, developed console applications to populate Encompass data into the tables on scheduled intervals, using Encompass SDK for .Net Framework 4.7
- Developed .Net Framework Solution to house future Encompass plugin code to provide standardized, organized, and easy environment to develop maintainable solutions.
- Automated a formerly manual file creation and merging processes for XML Mortgage Call Report, HMDA Report, and more compliance critical reports, using .Net Framework 4.7 by mapping all XML generated to C# classes. Saving the company thousands a month in outsourcing costs.
- Developed Asp.Net website for users to query Encompass Data for report creation on .Net Framework WebForms.

FEB 2018 – NOV 2018
SOFTWARE ENGINEER, RUOFF MORTGAGE

- Created ASP.net web interface to automate the creation of user accounts for Active Directory, marketing web pages, and Encompass mortgage software all in one session with .Net Framework WebForms
- Created console applications in C# to automate a broad range of business processes using the .Net framework
- Work regularly in a team environment to deliver enterprise web features built on MVC, .Net framework with SQL Server database
- Within six months, I became the go-to developer for projects related to the Ellie Mae Encompass SDK for .Net Framework 4.6+, which was our primary means of processing home loans
- Redesigned our Email Contact Platform used for marketing to communicate with all referral partners using Amazon Simple Email Service to provide timely marketing media to over 10,000 subscribers, withAsp.Net WebForms, and SQL Server database
- Create SQL Server stored procedures for executing CRUD functions for applications
- Project design, execution, testing, and support
- Worked in JIRA to track sprint work
- I supported a large portion of our codebase, composed of console apps, plugins, web pages, and APIs. I did so while accurately documenting my work and time and with the utmost care

FEB 2016 – FEB 2017
SOFTWARE CONSULTANT (JR. DEVELOPER), CONVERGENCE TECHNOLOGIES

- I worked as a consultant for multiple companies, performing Sage software migrations, installations, custom scripting, and more.
- Scripted with PHP for custom web pages integrating with Sage CRM data to provide user interfaces for custom processes.
- Scripted with VBS to add custom rules to Sage ERP system to add functionality for rolling up bill of materials with sales orders, and more.
- Created tables, updated, and wrote queries to MySql and MS SQL for CRUD functionality.
- Attained Sage 100 Consultant certification

SEP 2015 – FEB 2017
INFORMATION TECHNOLOGY SPECIALIST, LEGACY DENTAL

- I worked as a network administrator, performing activities related to adding, updating user accounts and new machines throughout applications with Windows Active Directory.

- Developed and maintained C# applications to integrate with existing patient care applications
- Worked with vendors to maintain software and SQL Server databases.

SEP 2013 – FEB 2015
ACQUISITION SPECIALIST, KELLEY AUTOMOTIVE

- Sourced used vehicles from online auctions, analyzing market data to ensure profitability.
- Used Excel and in house BI tools to query, aggregate and analyze data from Manheim Market Reports, SQL server, and proprietary sources, such as VAuto.

SKILLS

- AI Algo – Including RAG
- Azure PaaS
- Dotnet / .Net Framework
- SQL Server DB (RDBMS)
- VS Code/Visual Studio

- Object Oriented Programming
- C# Language
- Research
- Python
- Cosmos DB

ACTIVITIES

In the past I volunteered as the President of the Northrop Instrumental and Music Parent's Association. Before that, I was the VP, and the fundraising chairman. Outside of work, I enjoy reading fiction, and learning newer technologies (some with purpose, some without).