

Dr. Jacob W. Archambault

FULL-STACK DEVOPS ENGINEER

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EDUCATION

- 2017 **Ph.D.**, philosophy FORDHAM UNIVERSITY, BRONX, NY
Dissertation: The development of the medieval Parisian account of formal consequence. Director: Professor Gyula Klima. Passed without corrections.
- 2021 **A.S.**, software development JEFFERSON COMMUNITY AND TECHNICAL COLLEGE, LOUISVILLE, KY

PROFESSIONAL CERTIFICATIONS

- 2023 AWS certified cloud practitioner

EMPLOYMENT

VENMINDER

- Feb 2023-present Software Developer II PRODUCTION SUPPORT TEAM
After companywide SQL Server to PostgreSQL migration, refactored multiple LINQ-to-SQL queries to prevent timeouts for our largest customers and realize major performance improvements. Replaced longer monthly retrospectives with shorter more frequent retrospectives aligned with our weekly release cycle, leading to more consistent follow-through and better cross-department collaboration.
- May 2022-Feb 2023 CONTROL ASSESSMENTS TEAM
Created Typescript Aurelia components, C# immutable records, sealed request and command handlers, Xunit tests, and DynamoDB tables via AWS CloudFormation for control assessments containerized microservice instantiating CQRS architecture, and added generic batch update ability to our Dynamo data access library using AWS' SDK for .NET.

PETPARTNERS

- Oct 2021-May 2022 Associate Software Developer PRODUCTION SUPPORT TEAM
Consolidated repeat API calls and removed Cartesian explosion for premium tracking feature causing slow coverage period loading, leading to a 26X performance improvement. Wrote wiki documentation for the company's release process, git workflow, and numerous routine bugfixes, and created Azure DevOps bug template subsequently adopted across entire company.
- April-Oct 2021 BACKEND TEAM
Created backend logic, C# web API endpoints, and normalized SQL tables via EF migrations for handling commission payments to subcontracted companies and internal call center agents for new flagship employer-based pet insurance product. Converted SQL stored procedures for retrieving claims, policy losses, and veterinarian information in monolithic application to Entity Framework backend called by web API microservices, and scripted automation of .NET web API publication for local development environments.

WAYSTAR

- Jan-April 2021 Software Developer Apprentice RECONDO BOTS TEAM
Fixed bugs in Chrome and Firefox web crawlers, written as Java Maven projects using Selenium, obtaining patient payment information from insurance provider websites. Deployed fixes to development and production environments with Jenkins. Used Jira for project management, SVN for version control, and Eclipse and IntelliJ Idea for IDEs.
- May 2020-April 2021 DEVOPS APPLICATIONS TEAM
Louisville, KY. Pioneered work converting .NET Framework projects to containerized .NET Core projects running on Docker; built, deployed, and configured team projects with Azure DevOps; set up logging of automated alerts from Aro load balancers to Microsoft Teams and Splunk, and co-led company-wide training on using YAML for Azure DevOps pipeline configuration.

Aug 2019-May 2020

ARCHITECTURE TEAM

Louisville, KY. Contributed to a company-wide full-stack C# .NET framework applicant testing website implementing MVC pattern with Visual Studio and Git version control. Normalized back-end SQL Server databases and application model layer, and wrote database queries both in SQL directly and in C# with LINQ and Entity Framework. Wrote JavaScript/jQuery functions for DOM manipulation and sending/retrieving server information with AJAX, and improved HTML/CSS web accessibility and design responsiveness by adding semantic HTML, media queries, and Flexbox layouts.

2015-2017

FORDHAM UNIVERSITY

Distinguished research fellow

Bronx, NY. Published numerous articles, book contributions, and an edited volume with publishers including Cambridge University Press, Brill and Springer, secured grants and honors from institutions including the University of Salzburg and the University of St Andrews, and presented papers at prestigious institutions across three continents, primarily in the history and philosophy of logic. For a full list of publications and presentations, see my CV.

SKILLS

DevOps	AWS, DOCKER, AZURE DEVOPS, YAML, GIT, SVN, JIRA, JENKINS, AGILE DEVELOPMENT
C# .NET	ASP.NET CORE, ENTITY FRAMEWORK CORE, LINQ, BLAZOR
Databases	DYNAMODB, POSTGRESQL, DATAGRIP, SQL SERVER, MONGODB
Ontology/Knowledge Engineering	OWL, RDF, PROTÉGÉ, SWRL, SPARQL
Java	GRADLE, MAVEN, JAVA FX, SWING, INTELLIJ IDEA, ECLIPSE
Data analysis	PYTHON, PANDAS, MATPLOTLIB, JUPYTER NOTEBOOKS
Web development	TYPESCRIPT, AURELIA, NODE.JS, HANDLEBARS, JQUERY, AJAX, JSON; CSS, BOOTSTRAP; SEMANTIC HTML, RESPONSIVE WEB DESIGN; CHROME DEV TOOLS, WORDPRESS

REFERENCES

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