

# Dr. Jacob W. Archambault

FULL-STACK DEVOPS ENGINEER

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## EDUCATION

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

## PROFESSIONAL CERTIFICATIONS

2023	AWS certified cloud practitioner
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## 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, and deployed those fixes to development and production environments with Jenkins.	
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. Improved HTML/CSS web accessibility and design responsiveness for a company-wide full-stack C# .NET framework applicant testing website 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

Roger Loving  
Lead Support Developer  
PetPartners, Inc.  
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