

# Dr. Jacob W. Archambault

FULL-STACK DEVOPS ENGINEER

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## EDUCATION

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|------|--|---|
| 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

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| Jul 2023 | AWS certified cloud practitioner |
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## EMPLOYMENT

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### VENMINDER

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| Feb 2023-present  | <b>Software Developer II</b>  | PRODUCTION SUPPORT TEAM  |
|                   | Refactored multiple LINQ-to-SQL queries to prevent timeouts for our largest customers and realize major performance improvements after companywide SQL Server-to-PostgreSQL migration. 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 | <b>Associate Software Developer</b>   | 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

Pioneered work converting .NET Framework projects to containerized .NET Core projects running on Docker; co-led company-wide training on using YAML for Azure DevOps pipeline configuration; built, deployed, and configured team projects with Azure DevOps, and set up logging of automated alerts from Aro load balancers to Microsoft Teams and Splunk.

Aug 2019-May 2020

INTERN TEAM

Improved HTML/CSS web accessibility and design responsiveness for a company-wide applicant testing website by adding semantic HTML, media queries, and Flexbox layouts.

## FORDHAM UNIVERSITY

2015-2017

## 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

KUBERNETES, AWS, AZURE DEVOPS, DOCKER, JENKINS

## Ontology/knowledge engineering

OWL, RDF, PROTÉGÉ, SWRL, SPARQL

## Data engineering

DYNAMODB, POSTGRES SQL, SQL SERVER, MONGODB

## Data analysis

PYTHON, PANDAS, MATPLOTLIB, JUPYTER NOTEBOOKS

## Web development

TYPESCRIPT, ANGULAR, AURELIA, NODE.JS, BOOTSTRAP, JQUERY, WORDPRESS

## .NET

ENTITY FRAMEWORK CORE, LINQ, BLAZOR

## Java

SELENIUM, GRADLE, MAVEN, JAVA FX, INTELLIJ IDEA, ECLIPSE

## REFERENCES

Roger Loving  
Lead Support Developer  
PetPartners, Inc.  
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Raleigh, NC 27617  
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