

# Dr. Jacob W. Archambault

FULL-STACK DEVOPS ENGINEER

[🏠 jacobarchambault.com](https://jacobarchambault.com)   [✉ jacobarchambault@gmail.com](mailto:jacobarchambault@gmail.com)   [📞 +1 401 450 4768](tel:+14014504768)  
[🐙 github.com/JacobArchambault](https://github.com/JacobArchambault)   [in linkedin.com/in/JacobArchambault](https://www.linkedin.com/in/JacobArchambault)   [🎓 Google scholar](#)

## 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.	
2011	<b>M.A.</b> , philosophy (cum laude)	UNIVERSITY OF HOUSTON, HOUSTON, TX
2009	<b>B.A.</b> , philosophy (cum laude)	FRANCISCAN UNIVERSITY OF STEUBENVILLE, STEUBENVILLE, OH
2021	<b>A.S.</b> , software development	JEFFERSON COMMUNITY AND TECHNICAL COLLEGE, LOUISVILLE, KY

## EMPLOYMENT

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### PETPARTNERS

Oct 2021-May 2022	Associate Software Developer	SUPPORT TEAM
	Formulated solutions for critical bugs and data fixes for both customer-facing and internal websites. Improved premium tracking feature performance 26X by Unified multiple 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 Aio 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.	

## HIGHLANDS LATIN SCHOOL

2017-2018

Philosophy, Latin, and classics teacher

Louisville, KY. Taught college-level material in Latin, ontology, and classics at advanced private high school. Led ontology students to fully reconstruct arguments and critically explicate texts from Plato, Aristotle, Thomas Aquinas, and others. Led Latin students to translate both from and to Latin, with assignments principally focused on Caesar. By pairing classic texts with carefully designed assignments, I improved student learning outcomes while decreasing student workload, leading 90% of students to earn the highest letter grade available.

## 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.

## SELECT PROGRAMMING PROJECTS

2019-present

C#

PERSONAL WEBSITE

A .NET 5 MVC website with links to my programming projects, published papers, resume and CV, running in a Docker Linux container. Features implemented include partial views and dynamic page content generation, bundling and minification, custom routing, http status code error handling, and Google Analytics.

2020-present

AUTO LOT MVC STORE

A three-project .NET 5 MVC solution consisting of a website front-end, a data access layer, and a model layer. Makes use of .NET 5 records, razor view components, custom tag helpers, exception filters, custom routing, YAML pipeline configuration with GitHub actions, and LINQ queries over objects linked via entity framework core to a SQL Server relational database. Expanded from a *Pro C# 7* tutorial.

2021

RECURSIVE FOLDER COPIER

A .NET 5 file I/O application recursively copying files to an output directory based on user prompts for filters by date, regex pattern, number of files to match per subdirectory, making use of a decorator pattern, dependency injection and multiple implementations of a common interface.

2020-present

OWL

FAMILY TREE ONTOLOGY

A growing *ontology*, that is, an organized categorization of reality into various types, detailing my family tree, starting from simple relationships and defining more complex ones in terms of the simpler ones. Written in OWL/RDFS and developed with Protégé ontology editor.

2019

Python/SQL

CPI INDEX ANALYSIS

Code Louisville certification received for completing coursework and Jupyter Notebook project analyzing consumer price index data, demonstrating facility with SQL queries, commands and joins, Python database connections and the pandas and matplotlib libraries for data analysis and visualization.

2021

Java

TRIP REIMBURSEMENT CALCULATOR

A Maven JavaFX application that calculates, then displays meal, travel, and lodging reimbursement amounts based on different maximum daily allotments from user inputs.

2021

SLOT MACHINE GAME

A Maven JavaFX slot machine game that displays per turn and total winnings on each spin, calculated from the player's bet and number of matches.

2021	EMPLOYEE REFACTOR	A Java tutorial showing through its git history how to convert a tightly coupled application using inheritance and mutable fields into one implementing best practices including strong encapsulation, composition over inheritance, object cohesion, loose coupling, immutability, and dependency injection, via an application printing out information for various types of employees. Includes an extensive README explaining the implemented design decisions.
2021	Web development	TYPESCRIPT INCOME TAX CALCULATOR A front-end application using pure functions in TypeScript to display tax liability from a user's gross income input on a Bootstrap-styled HTML page.
2021	ANGULAR STUDENT INFO	An Angular and Node.JS CRUD app for updating student midterm and final exam info, retrieved from a MongoDB database via mongoose.
2021	MONGO TRIP LOG	A node, express, and handlebars application retrieving trip data from a Mongo NoSQL database.

## AWARDS AND HONORS

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2017-2018	Ernst Mach Grant	UNIVERSITÄT SALZBURG, INSTITUT FÜR PHILOSOPHIE 9,450 €. Salzburg, Austria. Awarded for project: 'Grounding Logical Consequence'. Supervisor: Prof. Julien Murzi. Financed by the Austrian Agency for International Cooperation in Education and Research (OeAd-GmbH), Centre for International Cooperation & Mobility (Declined).
2016-2017	Alumni dissertation fellowship.	FORDHAM UNIVERSITY \$30,450. Granted to aid completing a dissertation in the history of logic, including translations of previously untranslated early medieval logic texts.
2015-2016	Mark and Kathryn Tomasic endowed fellowship.	FORDHAM UNIVERSITY \$26,530 and reprieve from teaching responsibilities. Granted for exemplary research in medieval philosophy.
2015	Summer research fellowship.	FORDHAM UNIVERSITY \$4,000. Granted for manuscript research project on texts used to teach logic in medieval France.
2014	Visiting postgraduateship	ARCHÉ RESEARCH CENTRE, UNIVERSITY OF ST ANDREWS St Andrews, Scotland. Competitive visiting postgraduateship with University of St Andrew's Arché Research Centre for Language, Logic, Metaphysics and Epistemology. Conducted research supervised by professor Stephen Read on the history and philosophy of logic, presented research at and participated in the centre's weekly colloquia.

## SELECT PUBLICATIONS

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### EDITED VOLUME

- 2018 1. *Consequences in medieval logic*. *Vivarium* 56:3-4, 201-366.

### JOURNAL ARTICLES

- 2019 2. 'Counterpossibles and normal defaults in the *filioque* controversy'. *Logica Universalis* 13:4, 443-455.
- 2018 3. 'Introduction: consequences in medieval logic'. *Vivarium* 56:3-4, 201-221.
4. 'Consequence and formality in the logic of Walter Burley'. *Vivarium* 56:3-4, 292-319.

- 2017 5. 'Monotonic and non-monotonic embeddings of Anselm's proof'. *Logica Universalis* 11:1, 121-138.

#### CONFERENCE PROCEEDINGS

- 2018 6. 'Mereological hylomorphism and the development of the medieval substitutional account of formal consequence'. In G. Klima and A. Hall (eds.), *Hylomorphism and Mereology: Proceedings for the Society of Medieval Logic and Metaphysics* 15 (Cambridge Scholars), 81-103.

#### WEB PUBLICATIONS

- 2019 7. 'Object-oriented programming objects aren't objects'. *Medium.com, programming*. May 11.
8. 'On semantic ambiguity in Anselm of Canterbury's ontological argument'. *Medium.com, philosophy*. May 8.

#### SKILLS

DevOps	DOCKER, AZURE DEVOPS, YAML, GIT, SVN, JIRA, JENKINS, AGILE DEVELOPMENT
C# .NET	ASP.NET CORE, ENTITY FRAMEWORK CORE, LINQ, BLAZOR, WPF
SQL	MICROSOFT SQL SERVER, SQL SERVER MANAGEMENT STUDIO, SQLITE, MYSQL
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, JAVASCRIPT, 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.  
8051 Arco Corporate Dr.  
Suite 350  
Raleigh, NC 27617  
1 (919) 931 6997  
rloving@petpartners.com

Mark Hamner  
Manager, Application  
Engineering  
Waystar  
888 W. Market St.  
Louisville, KY 40202  
1 (502) 475 2692  
mark.hamner@waystar.com

Gyula Klima  
Professor of Philosophy  
Fordham University  
Collins Hall 101  
441 E. Fordham Rd  
Bronx, NY 10458  
+1 646 919 2990  
klima@fordham.edu