

# Dr. Jacob W. Archambault

FULL-STACK DEVOPS DEVELOPER

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## EDUCATION

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- 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

## EMPLOYMENT

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- Jan-April 2021      Software developer apprentice, Java bot team      WAYSTAR  
Fixed bugs in Java Maven projects automating Selenium Chrome and Firefox web bots which obtain 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      Software developer apprentice, DevOps Applications team      WAYSTAR  
Louisville, KY. Pioneered work on porting various team projects from .NET Framework to .NET Core and on project containerization with 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      Software developer apprentice, Architecture team      WAYSTAR  
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.
- 2017-2018      Philosophy, Latin, and classics teacher      HIGHLANDS LATIN SCHOOL  
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.
- 2015-2017      Distinguished research fellow      FORDHAM UNIVERSITY  
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

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- 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 containerized 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 <i>Pro C# 7</i> tutorial.	
2021		RECURSIVE FOLDER COPIER
	A containerized .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.	
2019-2021	Java	FEDERAL RESERVE DATA CSV READER
	Code Louisville certification received for completing coursework and project merging, filtering, and writing Federal reserve data between csv files based on user input, showcasing facility with File I/O, Maven, Gradle, and IntelliJ Idea IDE.	
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, including an extensive README explaining the implemented design decisions.	
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.	
2020-present	OWL	FAMILY TREE ONTOLOGY
	A growing <i>ontology</i> , 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.	
2020		MUSIC ONTOLOGY
	A music ontology focused on The Beach Boys' discography, detailing relations among songs, artists, albums, band members, and songwriters, among others.	
2020-present		COUNTRY ONTOLOGY
	A highly modular ontology created via the use of imports and multiple files, based on the U.S. states and their common regional divisions according to the US Census.	
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		NODE FLIGHT BOOKING
	A Node.js application simulating a flight booking service using handlebars and express.	

## 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. \$30,450. Granted to aid completing a dissertation in the history of logic, including translations of previously untranslated early medieval logic texts.	FORDHAM UNIVERSITY
2015-2016	Mark and Kathryn Tomasic endowed fellowship. \$26,530 and reprieve from teaching responsibilities. Granted for exemplary research in medieval philosophy.	FORDHAM UNIVERSITY
2015	Summer research fellowship. \$4,000. Granted for manuscript research project on texts used to teach logic in medieval France.	FORDHAM UNIVERSITY
2014	Visiting postgraduateship 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.	ARCHÉ RESEARCH CENTRE, UNIVERSITY OF ST ANDREWS

## 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

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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

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## REFERENCES

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Mark Hamner  
Manager, Application  
Engineering  
Waystar (current supervisor)  
888 W. Market St.  
Louisville, KY 40202  
1 (502) 475 2692  
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Brian Donohue  
Ontology & Semantics  
Manager, Enterprise Data  
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