

Dr. Jacob W. Archambault

FULL-STACK DEVOPS DEVELOPER

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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

EMPLOYMENT

- 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

- 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.	
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 number of slot matches and user's bet.	
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.	
2019-2021		FEDERAL RESERVE DATA CSV READER
	A maven console application merging, filtering, and writing Federal reserve data between csv files based on user input.	
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

- 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

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

Mark Hamner
 Manager, Application
 Engineering
 Waystar (current supervisor)
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 Ontology & Semantics
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 Management
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