

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

EMPLOYMENT

May 2020-	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.	

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 four-project .NET Core MVC solution consisting of a website front-end, an API project, a data access layer, and a model layer. Makes use of razor view components, custom tag helpers, exception filters, custom routing, 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.	
2020		STUDENT INFO APP
	Code Louisville certification received for completing coursework and this console project serializing student data gathered from user prompts to a JSON file. Implemented C# features include LINQ queries, reflection, delegates, exception handling, and JSON serialization.	

2020		BLAZOR CALCULATOR
	A Blazor WebAssembly calculator application, unifying the code for various calculator operations via lambda expressions and model binding.	
2020-present		WINDOWS PRESENTATION FOUNDATION CALENDAR
	A scheduling application developed with Windows Presentation Foundation, allowing the user to add, delete, and retrieve scheduled events from a backing text file.	
2019	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. Also includes an extensive README explaining the designs implemented.	
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	Front-end 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, and body parser.	
2018		INFANT MESSAGE WEBSITE
	Code Louisville certification. Completed coursework and front-end design for a business website instructing caretakers in infant massage. Includes proficiency with Visual Studio Code, HTML5, CSS3, JavaScript, Git and GitHub, APIs and content delivery networks, Bootstrap and jQuery libraries, and the principles of responsive web design.	

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. \$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

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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