

# Dr. Jacob W. Archambault

LOGICIAN · DATA SCIENTIST · FULL-STACK DEVOPS DEVELOPER

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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.	
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 (expected)	<b>A.S.</b> , software development	JEFFERSON COMMUNITY AND TECHNICAL COLLEGE, LOUISVILLE, KY

## EMPLOYMENT

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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

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2019-present	PERSONAL WEBSITE
	A .NET Core MVC website with links to my programming projects, published papers, resume and CV. 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 entity framework core. Expanded from a <i>Pro C# 7</i> tutorial.
2020	BLAZOR CALCULATOR
	A Blazor WebAssembly calculator application, unifying the code for various calculator operations via lambda expressions and model binding.

## SELECT PROGRAMMING CERTIFICATIONS

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2020	C# .NET	CODE LOUISVILLE
	Certification received for completing coursework and a console project serializing student data gathered from user prompts to a JSON file. Developed in the Visual Studio IDE, the project's implemented C# features include LINQ queries, reflection, delegates, exception handling, and JSON serialization.	

2019	Python/SQL	CODE LOUISVILLE
	Completed 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.	
2019	Java	CODE LOUISVILLE
	Completed coursework and project using Federal reserve funds rate data to generate and open a file based on user selection, showcasing facility with File I/O, Maven, and IntelliJ Idea IDE.	

## 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.	

## SKILLS

DevOps	DOCKER, AZURE DEVOPS, YAML, GIT, GITHUB ACTIONS, 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	INTELLIJ IDEA, GRADLE, MAVEN, ECLIPSE
Data analysis	PYTHON, PANDAS, MATPLOTLIB, JUPYTER NOTEBOOKS
Data serialization	JSON, AJAX
Front-end web development	HTML, CSS, BOOTSTRAP, JAVASCRIPT, JQUERY, SEMANTIC HTML, RESPONSIVE WEB DESIGN, CHROME DEV TOOLS, WORDPRESS

## REFERENCES

Mark Hamner  
Manager, Application  
Engineering  
Waystar (current supervisor)  
888 W. Market St.  
Louisville, KY 40202  
1 (502) 475 2692  
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