

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. | |
| 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

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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 | 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. | |

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| 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. | |
| 2021 | Java | 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 |
| | 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 | | WEATHER API READER |
| | A Java gradle application that reads today's local weather temperature, visibility, precipitation, humidity, wind direction and speed from an api in JSON format and prints it to a console. | |
| 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. 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
 Manager, Enterprise Data
 Management
 Capitol One
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