

# Dr. Jacob W. Archambault

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Logician, ontologist, full-stack C# .NET DevOps engineer

## Education

### Fordham University

Bronx, NY

*PhD, philosophy (specialization: logic)*

2017

Dissertation title: 'The development of the medieval Parisian account of formal consequence.' Supervisor; Professor Gyula Klima.

## Work experience

### Waystar

Louisville, KY

*Software developer apprentice, DevOps Applications team*

May 2020-

Led 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 A10 load balancers to Microsoft Teams and Splunk, and co-led company-wide training on using YAML for Azure DevOps pipeline configuration.

*Software developer apprentice, Architecture team*

Aug. 2019-May 2020

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.

### Highlands Latin School

Louisville, KY

*Ontology, Latin, and classical political philosophy teacher*

2017-2018

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.

### Fordham University

Bronx, NY

*Distinguished research fellow*

2015-2017

Published numerous [articles](#), [book contributions](#), and an [edited volume](#) with publishers including Cambridge University Press, Brill and Springer, 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 distinguished fellowships and competitive grants

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Universität Salzburg, Institut für Philosophie

Salzburg, Austria

*Ernst Mach Grant, 9,450 €*

*2017-2018*

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).

## Select programming projects and certifications

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### Projects

*Personal website*

*2019-present*

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.

### Certifications

*C# .NET, Code Louisville*

*2020*

Completed 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.

*Python/SQL, Code Louisville*

*2019*

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.

*Java, Code Louisville*

*2019*

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.

*Front-end web development, Code Louisville*

*2018*

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.

## Additional skills

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**Foreign Languages:** Latin (full professional proficiency), French (reading fluency, speaking ability), German (reading competence), Ancient Greek (reading competence).

**Mathematical logic:** Proficient with proof calculi and semantics for first- and second-order classical logic, free logic, various normal and non-normal modal logics, many-valued and fuzzy logics, relevant logics, and non-monotonic logics.

**L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub>:** Typesetting language used with Biber bibliography software to write and publish research articles with mathematical notation, graphs, tables, and automatically generated bibliographies.

**Paleography:** I can read, date, and determine the rough provenance of medieval Latin manuscripts.

## References

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### **Mark Hamner**

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Logician, ontologist, full-stack C# .NET DevOps engineer

**Revature**

Louisville, KY

November 26, 2020

Dear Sir or Madam,

I am writing in application to the position of entry-level Java developer at Revature. In what follows, I'll explain how my background in object-oriented programming, data analysis, and DevOps development would contribute to working with your team in Louisville.

I currently work as a full-stack C# .NET developer on the DevOps application team for Waystar, a health care solutions company that automates connecting patient and insurance provider information for hospitals. In my current role on the DevOps team, I've pioneered refactoring and converting several .NET framework services into containerized .NET core apps running in Docker, led training on using YAML for Azure DevOps pipeline configuration, and set up around 20 team projects in Azure DevOps server, for which I also contributed to and streamlined the documentation. In my previous role on the architecture team, I contributed to a company-wide .NET framework testing application for new prospective employees. In that role, I improved our web layout for smaller screens using Flexbox, CSS Grid, and media queries, wrote Ajax requests to send and receive data from our backend servers, and brought our HTML code in line with semantic HTML standards. On the back-end, I normalized SQL databases, modeled different business domains in both SQL database tables and C# classes mapped to these via the Entity Framework ORM, and performed queries in both SQL and LINQ.

I hold a PhD in philosophy, specializing in logic, and a doctoral certificate in medieval studies from Fordham University, the latter of which was a cross-disciplinary program involving coursework in theology, history, and Latin palaeography outside in addition to my main course of study. My [dissertation](#) traced the earliest development of the concept of formal consequence in late medieval logic, demanding broad knowledge of the history of philosophy, of medieval Latin, and of semantics for classical and non-classical logics as well as expertise with translating between natural and formal languages. Since 2014 I have published an [edited volume](#) and [numerous journal articles](#) and [book contributions](#) in ontology, the philosophy of logic, and the history of science, and presented papers introducing new results in logic, semantics, and medieval philosophy across three continents.

Prior to my current position, I taught metaphysics, Latin, and classical political theory at Highlands Latin School, an advanced classical high school in Louisville, Kentucky. In Latin, I instructed capable middle-school students in translating both to and from Latin at a level higher than that I initially received in my first two years of college Latin, with text assignments principally focused on

Caesar. My Latin classes incorporated daily lessons in Latin syntax, and drew on recent research in Latin phonology and philology to help clarify features such as perceived irregularities in noun declensions. My ontology teaching focused on categories of being in Aristotle's *Metaphysics* and on the full reconstruction of multi-part textual arguments given only in enthymematic form in classic texts such as Plato's *Euthyphro* and Thomas Aquinas' *Summa Theologiae*. By year's end, I had led sophomores and juniors who began the academic year unable to explain how the word 'therefore' linked what preceded it to what came after it to write work at a level that I only began to see among my peers in graduate school.

The above skills answer directly to the need for both concrete OOP experience and abstract logical ability that would benefit this position best. A copy of my resume with my contact information is prepended to this letter. Should you consider me for the entry-level Java developer opening, I would be happy to hear from you.

Cordially,

A handwritten signature in dark ink, appearing to read "Jacob W. Archambault", with a long, sweeping horizontal line extending to the right.

**Dr. Jacob W. Archambault**