Dr. Jacob W. Archambault

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Full stack .NET developer, logician and educator.

Education

Fordham University   **Bronx, NY**
PhD, philosophy; Doctoral certificate, medieval studies   *2017*

Experience

Waystar   **Louisville, KY**
Software developer apprentice   *Aug. 2019-*
Technologies used daily include: C# with Visual Studio integrated development environment (IDE); Entity Framework, LINQ, and Microsoft SQL Server Management Studio (SSMS); Git with Azure DevOps/TFS; JavaScript with jQuery and Ajax, and HTML5 and CSS3 with Bootstrap. Currently contributing to a company-wide .NET framework applicant testing website implementing MVC pattern and Onion Architecture.

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 programming projects and certifications

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.

Personal ontology   *2020-present*
A growing ontology, that is, an organized categorization of reality into various types, starting from simple information about myself and branching out via logical entailments. Written in OWL/RDFS and developed with Protégé ontology editor.

Certifications

C# .NET, Code Louisville   *2020*
Completed coursework and project developed in Visual Studio IDE implementing C# features including LINQ queries, reflection, delegates, exception handling, and JSON serialization.

Python/SQL, Code Louisville   *2019*
Completed coursework and Jupyter Notebook project demonstrating facility with SQL queries, commands and joins, and with Python file I/O, database connections and libraries for data analysis and visualization.

Java, Code Louisville   *2019*
Completed project and coursework showing skill with File I/O, Maven, Spring, JavaFX, 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.

Select distinguished fellowships and competitive grants

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).

Additional skills

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.

LaTeX 2$_\varepsilon$: 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

Professor Gyula Klima	Dr. Brian Donohue	Larry Briggs
Professor of Philosophy	Principal Associate Ontologist,	Director of Application Architec-
Fordham University	Enterprise Management	ture
Collins Hall 101	Capitol One	Waystar (current employer)
441 E. Fordham Rd	1680 Capitol One Drive	888 W. Market St
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IO Informatics   March 22, 2020
2550 Ninth St. #114.
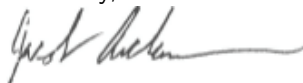Berkeley, CA 94710

Dear Sir or Madam,

I am writing in application to the position of knowledge engineer at IO Informatics. In what follows, I'll explain how my background in logic, ontology, computing, philosophy, and natural and formal languages would contribute to working with your team in Berkeley.

I received a PhD in philosophy in August 2017 from Fordham University. Since 2014 I have published numerous journal articles, book contributions, and an edited volume in fields including ontology, the philosophy of logic, and the history of science, and presented papers at institutions across three continents. My dissertation traced the earliest development of the concept of formal consequence, central to logic today, in late medieval logic, which demanded broad knowledge of the history of philosophy, of medieval Latin, and of semantics for classical and non-classical logics, as well as facility with translating between natural and formal languages.

I currently work as a full-stack C# .NET developer for Waystar, a health care solutions company that automates connecting patient and insurance provider information for hospitals. Besides developing web features with HTML5, CSS3 and Bootstrap, and JavaScript and jQuery, my job regularly requires me to model different business domains via both SQL database tables and C# classes mapped to these via the Entity Framework ORM. This has allowed me to build projects with concrete value on the theoretical foundation that my background in philosophy and semantics provides me with, and has expanded that foundation to include experience normalizing databases and writing queries, joins and CRUD operations, both in SQL and in C# with LINQ. More recently, I've been working directly with the semantics of RDF/RDFS and OWL and implementing them in ontologies built with Protégé in my spare time - from which I've gained greater familiarity with basic formal ontology and the ontology engineering practices and modeling tradeoffs the position requires.

A copy of my resume with my contact information is prepended to this letter. Should you consider me for the knowledge engineer opening, I would be happy to hear from you.

Cordially,

Dr. Jacob W. Archambault