Dr. Jacob W. Archambault

Full-stack DevOps developer

⌂ jacobarchambault.com   ✉ jacobarchambault@gmail.com   ☐ +1 401 450 4768
○ github.com/JacobArchambault   in linkedin.com/in/JacobArchambault   ✆ Google scholar

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 Commmunity 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 A10 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 — 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 *Pro C# 7* tutorial.

2020 — Blazor calculator

A Blazor WebAssembly calculator application, unifying the code for various calculator operations via lambda expressions and model binding.

2021 — Encrypted file generator

A Java application using file I/O and implementing a Caesar cipher encryption to read a text and write its encryption to a different file. The application makes use of a decorator pattern, generics, and multiply implemented interfaces to achieve both high cohesion and loose coupling.

2021   RANDOM NUMBER GENERATOR

A Java tutorial illustrating how to achieve both high cohesion and loose coupling through the injection of object dependencies and the use of multiple interface implementations, based on an application generating random numbers to then reading from a .TXT file. Beginning with a large body of procedural code executed entirely within a static main method, this application is refactored through successive commits to place distinct functionality into various classes in accordance with the principles of SOLID programming design. The final result is an application making heavy use of dependency injection even to the point of injecting strings and other instances of relatively low level classes. Because of this, it even becomes possible to make all non-static methods parameterless.

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.

SELECT PROGRAMMING CERTIFICATIONS

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.

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.

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 CENTURE, 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, 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	Intellij Idea, Gradle, Maven, Eclipse, Spring
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
mark.hamner@waystar.com

Brian Donohue
Ontology & Semantics
Manager, Enterprise Data
Management
Capitol One
1680 Capitol One Drive
McLean, VA 22102
1 (703) 223 9882
brian.donohue@capitolone.com

Graham Priest
Distinguished Professor of
Philosophy
Graduate Center, City
University of New York
Department of Philosophy
365 5th Ave
New York, NY 10016
+1 917 391 4114
priest.graham@gmail.com