Dr. Jacob W. Archambault

FULL-STACK DEVOPS ENGINEER

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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.

2021	**A.S.**, software development	JEFFERSON COMMMUNITY AND TECHNICAL COLLEGE, LOUISVILLE, KY

PROFESSIONAL CERTIFICATIONS

Jul 2023	AWS certified cloud practitioner

EMPLOYMENT

May 2022-present	Venminder	SOFTWARE DEVELOPER II

Created DynamoDB tables via AWS CloudFormation for control assessments containerized microservice instantiating CQRS architecture, and added generic batch update ability to our Dynamo data access library using AWS SDK for .NET. Refactored multiple LINQ-to-SQL queries to prevent timeouts for our largest customers and realize major performance improvements after companywide SQL Server-to-PostgreSQL migration. Replaced longer monthly retrospectives with shorter more frequent retrospectives aligned with our weekly release cycle, leading to more consistent follow-through and better cross-department collaboration.

April 2021-May 2022	PetPartners	ASSOCIATE SOFTWARE DEVELOPER

Created backend logic, C# web API endpoints, and normalized SQL tables via EF migrations for handling commission payments to subcontracted companies and internal call center agents for new flagship employer-based pet insurance product. Consolidated repeat API calls and removed Cartesian explosion for premium tracking feature causing slow coverage period loading, leading to a 26X performance improvement. Wrote wiki documentation for the company's release process, git workflow, and numerous routine bugfixes, scripted automation of .NET web API publication for local development environments, and created Azure DevOps bug template subsequently adopted across entire company.

Aug 2019-April 2021	Waystar	SOFTWARE DEVELOPER APPRENTICE

Pioneered work converting .NET Framework projects to containerized .NET Core projects running on Docker; co-led company-wide training on using YAML for Azure DevOps pipeline configuration; built, deployed, and configured team projects with Azure DevOps, and set up logging of automated alerts from A10 load balancers to Microsoft Teams and Splunk. Fixed bugs in Chrome and Firefox web crawlers, written as Java Maven projects using Selenium, obtaining patient payment information from insurance provider websites, and deployed those fixes to development and production environments with Jenkins.

SKILLS

DevOps	KUBERNETES, AWS, AZURE DEVOPS, DOCKER, JENKINS
Ontology/knowledge engineering	OWL, RDF, PROTÉGÉ, SWRL, SPARQL
Data engineering	DYNAMODB, POSTGRESQL, SQL SERVER, MONGODB
JVM	SCALA, INTELLIJ IDEA, JAVA, SELENIUM, JUNIT, GRADLE, MAVEN, JAVAFX, ECLIPSE
Data analysis	PYTHON, PANDAS, MATPLOTLIB, JUPYTER NOTEBOOKS
Web development	TYPESCRIPT, ANGULAR, AURELIA, NODE.JS, BOOTSTRAP, JQUERY, WORDPRESS
.NET	ENTITY FRAMEWORK CORE, LINQ, XUNIT, ASP.NET CORE, BLAZOR