

RYAN WHITEELL

Software Engineer

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📍 Seattle, Washington

I am a Software Engineer with a strong focus on MLOps. My Master's thesis was an exploration of machine learning, particularly deep learning, for music recommendation. My primary goal is to build robust MLOps systems that enable the scalability, reliability, and optimal performance of production ML models, as well as accelerate the process of scientists getting their ideas into production.

I am happiest working on music or gaming-related products.

As an experienced Software Engineer, I have a diverse range of skills acquired over 5+ years of work in the industry. I began my career developing a large-scale 3D .NET application using C++ and SQL. Later, I transitioned into full-stack web development, where I worked with React, GraphQL, and Java-based backend services for Amazon's Prime Gaming website. Most recently, I have been focusing on MLOps and Data Engineering for Amazon's Game Growth organization, empowering scientists to answer questions about games.

I am seeking a new opportunity in the games industry to apply my skills to a product I love and to learn new industry relevant skills.

EXPERIENCE

Current
Jan 2022

AMAZON, ML SDE II

Designed and built machine learning infrastructure for gaming related science endeavors at scale. Provided ad-hoc software support to scientists.

Python SQL Redshift SageMaker Docker Airflow MLOps

NOTABLE PROJECTS:

- **LTV MODEL:** Deployed a model at scale to predict customer lifetime value on a monthly basis for millions of customers. Collaborated with data scientists to convert the model into a production-ready ML system using MLOps principles, and managed the pipeline using AWS services.
- **IGDB PARTNERSHIP:** Initiated a partnership between Prime Gaming and the Internet Game Database (IGDB) team to share game metadata. Drove alignment with leadership to adopt the IGDB game ID as the primary game ID in the Prime Gaming catalog. By doing so, Prime Gaming gained a rich set of game metadata to join its catalog items to for improved analytics. Independently built the IGDB data ingestion pipeline.

Dec 2021
May 2019

AMAZON, SDE II

Designed, implemented, and deployed software components and features for the Prime Gaming website; identified and solved problems, improved team's software and development/testing processes, participated in hiring and mentoring, led cross-team projects (with a focus on analytics, telemetry, and experimentation). Advised on recommendation systems for Prime Gaming.

Designed, implemented, and deployed software components for Prime Gaming, improved team processes, and led cross-team projects with a focus on analytics, telemetry, and experimentation.

Java JavaScript React GraphQL DynamoDB Kinesis

NOTABLE PROJECTS:

- **FIBER:** Redesigned a legacy metrics reporting system and led a team of SDEs and DEs to complete the work. Achieved a 100% reduction in development hours for customer event metric changes by using a semi-structured data model. This laid the groundwork for broader analytics efforts at Prime Gaming by solving architectural bottlenecks that had been stifling innovation.
- **RECOMMENDATION AT PRIME GAMING:** Designed a high-level overview of the technical infrastructure needed to power production ready, customer facing machine learning models at Prime Gaming. Cleared up technical ambiguities and made recommendations to leaders regarding existing architecture integrations, timelines, and new team compositions. This work has helped pushed the idea through funding and into pre-development.
- **PIXEL MANAGEMENT:** Designed and implemented a system for content managers to schedule tracking pixels on gaming.amazon.com. Self-service pixel management empowered the performance marketing team to utilize intelligent re-targeting methods to build personalized ads for customers. This improved Return on Ad Spend (RoAS) and saved millions in advertising costs per year.

January 2019

June 2017

SHIPCONSTRUCTOR, SOFTWARE DEVELOPER

Developed a database-driven Autodesk shipbuilding and 3D modeling app for naval architects and marine engineers. Worked on the data team using C/C++, C# (.NET), and T-SQL (Microsoft SQL Server) in an agile environment. Contributed to client database performance improvement efforts.

SQL

C

C++

C#

.NET

Microsoft SQL Server

EDUCATION

REGIS UNIVERSITY, MASTER OF SCIENCE (M.S.), SOFTWARE ENGINEERING, 4.0	2017 - 2019
Thesis	
REGIS UNIVERSITY, BACHELOR OF SCIENCE (B.S.), COMPUTER SCIENCE, 3.99	2015 - 2017
Completed the degree online while playing professional hockey.	
NORWICH UNIVERSITY, BACHELOR OF SCIENCE (B.S.), ELECTRICAL AND COMPUTER ENGINEERING, 3.95	2013 - 2015
Note: Transferred into Regis University with one academic year remaining and did not obtain the degree.	

RYAN WHITELL - RESUME