

Angela Dietz

Software Engineering | University of Waterloo

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SKILLS

Languages: Java ▪ C/C++ ▪ Python ▪ C# ▪ SQL ▪ TypeScript ▪ HTML

Frameworks: Spring ▪ Flask ▪ GraphQL ▪ Prisma ▪ .NET ▪ Node.js ▪ Bootstrap

Tools: Git ▪ Postman ▪ Jenkins ▪ Maven ▪ Gradle ▪ SonarQube ▪ Charles Proxy ▪ Vim

EXPERIENCE

LinkedIn

Sunnyvale, CA

Backend Systems and Infrastructure Engineer Intern

May - August 2021

- Spearheaded development of partial key lookup in Venice, LinkedIn's main derived data storage system, by leveraging **RocksDB Prefix Seek** in **Java**, allowing users to query thousands of values at once without specifying full keys.
- Propagated data through callbacks and reused objects to ensure partial key lookup could support 150,000+ QPS, and executed benchmarking to verify performance.
- Migrated API for server side computation into all Venice clients by designing and implementing common interfaces, allowing 20% more users to leverage this feature.

Royal Bank of Canada

Toronto, ON

Software Developer

September - December 2020

- Created backend services with **Java** by configuring **Spring** web clients which fetch data through API's, allowing secure, streamlined transfer of 1 million documents annually and expedited mortgage approvals.
- Refactored backend infrastructure for creating web clients involving 40 files and 2,000+ lines of code by introducing polymorphism and leveraging **Spring** dependency injection, resulting in a 60% average file length reduction.

Connected

Toronto, ON

Software Engineering Intern

January - April 2020

- Improved accessibility of Windows app by implementing support for screen reader and keyboard navigation usage with **WPF .NET** to increase target market by 15%.
- Spearheaded network activity graph development for Windows VPN client using **C#** and **XAML**.
- Distributed **iOS** VPN server usage by implementing a server selection algorithm, reducing bottlenecks by 5%.

Tangam Systems

Waterloo, ON

Software Developer

May - August 2019

- Maintained and optimized data processing tools using **C#** and **TypeScript** to support a 30% increase in clientele.

PROJECTS AND RELEVANT INVOLVEMENTS

UW Blueprint 📄 | Project Developer

May 2021 - Present

- Collaborated with student team to create a **Next.js** web application for Richmond Centre for Disability consisting of an online storefront for requesting accessible parking permits, and a customer management system.
- Built **GraphQL APIs** with **Prisma**, and frontend **React** components with **Chakra UI** for displaying data to users.

UW Women in STEM 📄 | Web Developer

August - December 2020

- Transformed the frontend of team website to align with new team brand using **HTML**, **CSS**, and **JavaScript**.
- Created resources for and led two separate Code Your First Game workshops with **Pygame** which had 60+ participants in total, 95% of whom were able to successfully code and run the game.

Ballerinify iOS App

- Developed an **iOS** app with **Swift** and **TensorFlow PoseNet** to accurately identify dance positions in real-time.

Machine Learning Sentiment Analysis

- Trained a **Python** machine learning tool to distinguish between positive and negative sentiments of a statement.
- Employed **sci-kit learn** and **pandas** to train the classifier, achieving 95% accuracy for 30,000+ statements.

EDUCATION

Candidate for Bachelor of Software Engineering

University of Waterloo

Expected graduation: April 2023

September 2018 - Present

- GPA: 3.90/4.00 | Term Dean's List, September 2019 - Present
- Relevant coursework: Data Structures, Algorithms, Operating Systems, Database Management, Software Testing