

# Deandre Baker

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## Skills

**Languages:** Python, C#, Java, Go, Ruby, JavaScript, TypeScript, HTML, CSS, SQL

**Tools:** Django, FastAPI, .NET, Next.js, React, Angular, gRPC, SQL Server, Postgres, MongoDB

## Education

**BASc, Computer Engineering, University of Waterloo – Waterloo, ON** Sep 2019 – Apr 2024

- Relevant Courses: Algorithms and Data Structures, Real-Time Operating Systems, Computer Networks

## Work Experience

**Software Engineering Intern, Google – Mountain View, CA** May 2023 – Aug 2023

- Improved data analysis of Pixel Buds touch, gyro, and proximity sensors by revamping testing tool using **React** and **Python**, allowing developers to fine-tune gestures and in-ear detection algorithms
- Enforced **React** and **TypeScript** best practices to standardize development, reducing bugs by 90%

**Software Engineering Intern, Stripe – Seattle, WA** Jan 2023 – Apr 2023

- Created a no-code workflow builder to help merchants automate their own customized dunning flows
- Designed **gRPC** procedures to create and control asynchronous workflows using **Temporal** and **Java**

**Mobile and Web Engineering Intern, Spatial Systems – New York City, NY** Jan 2022 – Apr 2022

- Built web features using **React** to help creators build and share 3D metaverse spaces and NFT galleries
- Added an in-app chat using **Sendbird React Chat SDK** to support real-time messaging between users
- Overhauled **Go** API endpoints, resulting in human-identifiable URLs and improved SEO performance

**Software Engineering Intern, Ansys – Waterloo, ON** May 2021 – Aug 2021

- Architected high performance REST APIs and web apps using **ASP.NET Core** and **Angular** to provide a secure access pipeline for user account and product store information stored in **MongoDB** databases
- Incorporated creational, structural, and behavioral design patterns to reduce development time by 30%

**Associate Software Engineer, SPS Commerce – Brampton, ON** Sep 2020 – Dec 2020

- Engineered a background processing service using **ASP.NET Core**, **Dapper**, and **Hangfire** to automate the extraction, transformation, and retrieval of supplier data from **SQL Server** databases
- Developed a supplier configuration utility using **React** and **Redux** in **TypeScript**, leading to a 40% increase in work efficiency when modifying supplier data for clients

**Associate Software Engineer, SPS Commerce – Brampton, ON** Jan 2020 – Apr 2020

- Implemented multi-staged release pipelines with **Azure Pipelines** to configure and deploy code to **AWS EC2** and **ECS** instances via **CloudFormation** and **PowerShell**, decreasing required manual work by 30%

## Projects and Activities

**uMigrate – Project Lead, deandreb.com/umigrate** Jan 2020 – Jun 2021

- Directed a team of 15+ developers to create a social media site using **React Native**, **Django**, and **PostgreSQL** with features such as student networking, direct messaging, and a used item marketplace

**Interests:** Learning Mandarin Chinese, Kickboxing, Brazilian Jiu-Jitsu, Skiing, Clarinet