CONNOR BARKER

4th Year Computer Engineering

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Skills

Languages

JavaScript • Swift • Python • TypeScript • Objective-C • C++ • C • Java • Kotlin • C# • SQL • HTML • CSS

Tools & Technologies

React • Angular • MySQL • GraphQL • Node • AWS • Docker • Core ML • Keras • Xcode • Eclipse • Visual Studio

Experience

Fullstack Developer • Konrad Group

September 2020 - December 2020

- Led redesign of internal timesheet tracking application in React 17, which reduced loading times by ~800%
- Updated timesheet app backend from REST to GraphQL, decreasing return time of large requests by over 400%
- Refactored MySQL database using new indexes and foreign constraints, reducing average query time by ~150%

Mobile Developer • Zynga

January 2020 - April 2020

- Developed and maintained features for the iOS & Android Boggle apps in Swift, Objective-C, and Kotlin
- Updated several key legacy systems from Objective-C to Swift 5, decreasing game load times by ~40%
- Designed and implemented a UICollectionView customization framework to improve component reusability
- Converted the Boggle power-up selection screen from static page to dynamic stack view, simplifying the addition of new power-ups in future updates

Machine Learning Developer (iOS) • Konrad Group

May 2019 - August 2019

- Architected iOS application using Swift 5 and Core ML 3 to demonstrate viability of on-device model retraining
- Trained KNN neural network to recognize handwritten digits using Keras, then retrained on iPhone, resulting in 20% increase in classification accuracy

Web Developer • Konrad Group

September 2018 - December 2018

- Developer on client project for major Canadian bank, working in React 16 to create their onboarding website
- Created features for bank project including PDF viewer, custom input components, and dynamic progress bars
- Automated end-to-end and integration testing during builds using Puppeteer, headless Chromium, and Enzyme

Projects

Personal Portfolio Website

- Designed fully responsive portfolio site with React, hosted with AWS and distributed using CloudFront
- Implemented dynamic layout system to easily add new projects and work experience by updating JSON file
- Utilized AWS API Gateway and SES to create a contact form which forwards messages from a noreply address

Education

University of Waterloo

Candidate for Bachelor Of Applied Science, Honours Computer Engineering

Waterloo, ON • Expected June 2022