https://joshostblom.com
https://github.com/joshostblom

Joshua Ostblom

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Skills

Programming Languages:	Kotlin, Java, Python, C#, C++, C, JavaScript, TypeScript, SQL, R, VB.NET
Application Development:	React.js, Node.js, Tailwind CSS Jetpack Compose, Hilt/Dagger, Express.js, Node.js, MySQL
Developer Tools:	Git, Android Studio, Visual Studio, Unix, IntelliJ, Eclipse, Unity, Blender

Employment

Software Engineer, Intern   **Sandhills Global**   **May 2022-Present**

- Utilized **Jetpack Compose**, **Dagger/Hilt**, and **Retrofit** in **Android Studio** (Kotlin/Java) to pioneer over 25 full-stack mobile applications from the ground up that have over 100,000 downloads each on the Google Play Store.
- Refined APIs within the **.NET** platform using **REST** design principles to handle business logic across the companies' many Trade Sites applications.
- Created a modular microservice to handle **OAuth** verification using **JWT** tokens which are injected into view models and passed to views through states with **MVVM** architecture.
- Refactored implementation of the WebView module within our TradeSites and InventoryManagement mobile applications to better follow modularization and improve efficiency by 25%.
- Work with **Xamarin** (C#) and **GraphQL** in Visual Studio to update the FR8Star and HiBid mobile apps to stay up to date with the web application.
- Developed a domain search engine using **React**, **CSS**, and a DNS API to display status and stats which is being used by over 1,200 employees.
- Employ **GitHub** actions for **CI/CD** to automate builds with workflows.

Education

Lincoln, NE   **University of Nebraska - Lincoln**   **August 2020-Present**

- **Major:** Computer Science, BS (in-major GPA: 3.93)
- **Minor:** Mathematics
- **Coursework:** Algorithms & Data Structures, Artificial Intelligence, Operating Systems, Software Development, Automata, Systems Engineering, Bioinformatics
- **Achievements:** Dean's list every semester, Susan Buffett Scholar, Honors program

Projects

Personal Website: https://joshostblom.com (for additional information and projects)

Full-Stack React Portfolio Web App (https://joshostblom.com)

- Built a portfolio web app using **React** and **Tailwind CSS** with the **Vite JS** development server in the **Node.js** runtime environment.
- Constructed an API that follows **REST** principles using Express.js framework that connects to a **MySQL** database for storing information.
- Fetched data from my REST API using **AXIOS** to structure calls to endpoints and **JWT** tokens/refresh tokens to verify authorization for secure endpoints.

Full-Stack ASP.NET React E-Commerce Web App

- Worked with a team to establish a React e-commerce web app for the final project of our software development course.
- Put together an **ASP.NET** backend that controls data in a **SQL** database through an API structured with MVC architecture.
- Fabricated the **React** front end to allow users to search for items by name or category and store them in a shopping cart associated with their login which they can enter shipping and billing information to check out.
- Employed **AGILE** project management to complete tasks efficiently in sprints.

Java Genetic Sequence Multi-Tool

- Assembled a genetic sequence multi-tool which is designed for analyzing and modifying genetic sequences.
- Provided a driver to accept file inputs (including FASTA) or manual sequence entries to allow users to convert sequences between DNA and RNA, generate the reverse strand, complementary strand, or reverse complementary strand, locate subsequences within a sequence, and count nucleotides and amino acids.

Android Jetpack Compose Rent App

- Pioneered an Android application which helps users split rent between multiple people by tracking payments made by each individual throughout the month and adjusting the rent accordingly.
- Utilized **Jetpack Compose** for the UI, followed the **MVVM** architecture, and employed **Dagger/Hilt** for dependency injection.