https://joshostblom.com
https://github.com/joshostblom
https://www.linkedin.com/in/joshuaostblom

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, 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 achieved over 100,000 each downloads on the Google Play Store.
- Enhanced APIs within the **.NET** platform by applying **REST** design principles to efficiently manage business logic across the company's Trade Sites applications.
- Designed and implemented a modular microservice for **OAuth** verification using **JWT** tokens which are injected into view models and passed to views through states following the **MVVM** architecture.
- Refactored the WebView module within the Trade Sites and Inventory Management mobile applications to enhance modularity, resulting in a 25% improvement to efficiency.
- Worked with **Xamarin** (C#) and **GraphQL** in Visual Studio to update the FR8Star and HiBid mobile apps, ensuring they remain synchronized with the web applications.
- Developed a domain search engine using **React**, **CSS**, and a DNS API to display status and statistics, currently utilized by over 1,200 employees.
- Employed **GitHub** actions for **CI/CD**, automating build processes through customized workflows.

Education

M.S. Computer Science — **University of Nebraska - Lincoln** — **August 2023-December 2025**

- **GPA:** 3.99 (in-major GPA: 3.93)
- **Coursework:** Data Structures & Algorithms, Artificial Intelligence, Operating Systems, Automata
- **Achievements:** Dean's list every semester

B.S. Computer Science — **August 2020-December 2024**

- **GPA:** 3.99 (in-major GPA: 3.93)
- **Minor:** Mathematics
- **Coursework:** Data Structures & Algorithms, 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 Application (https://joshostblom.com)

- Built a portfolio web application using **React** and **Tailwind CSS**, leveraging the **Vite JS** development server within the **Node.js** runtime environment.
- Constructed a **REST**ful API using the Express.js framework, with connectivity to a **MySQL** database.
- Fetched data from my REST API using **AXIOS** to structure endpoint calls, implementing **JWT** and refresh tokens for secure authorization of endpoints.

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

- Collaborated with a team to establish a React e-commerce web application as the final project of our software development course.
- Put together an **ASP.NET** backend that manages data in a **SQL** database through an API, structured using MVC architecture.
- Fabricated the **React** front end to enable users to search for items by name or category, store selected items in a shopping cart associated with their login, and enter shipping and billing information to complete the checkout process.
- Employed **AGILE** project management to finish tasks efficiently within sprints.

Java Genetic Sequence Multi-Tool

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