

**Adam  
McNeil  
Profile**

St. Louis, Missouri - [github.com/adamMcneil](https://github.com/adamMcneil)  
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I am a graduate student at the University of Illinois Urbana-Champaign studying computer science. My course work has focused on distributed systems and data storage. I have the most professional experience with Java, SQL, and Git. However, I have experience in a wide range of languages and technologies (Go, Rust, OCaml, NeoVim, Linux, Svelte, Tailwind, JavaScript, CSS, C#, Unity, Kotlin, MongoDB).

**Experience**

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2023 - 2024  
*Two Years*

**NISC - SOFTWARE DEVELOPER INTERN - LAKE ST. LOUIS, MISSOURI**

- Helped maintain batch processing workflow written in Java.
- Streamlined data retrieval process from an Oracle database.
- Created test environment for migrating to Postgres Database.
- Wrote scripts in PowerShell to automate code base analysis and modification.

TECHNOLOGY: Java, PowerShell, Git, PostgreSQL, Oracle, Docker, Gradle, Spring Boot

2022  
*Nine months*

**Oasis Digital - SOFTWARE DEVELOPMENT INTERN - CHESTERFIELD, MISSOURI**

- Designed and developed a 3D project planning application using Unity.
- Used Firebase to manage and store persistent data.
- Competed in a company-wide game jam, successfully developing a game within a single day.

TECHNOLOGY: C#, Unity, Git, FireBase

**Projects**

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2021, 2025

**Lichess Engine** - <https://github.com/adamMcneil/chess-engine>

- Developed a Lichess engine bot in Java.
- Used flame graphs and other performance metrics to identify slow portion of code that need to be optimized.
- Developed a unit and integration test suite.
- Implemented minimax algorithm with alpha-beta pruning to select the best move.

TECHNOLOGY: Java, IntelliJ, Lichess

2023 - 2024

**Fullstack Project** - <https://github.com/adamMcneil/mcneil-web-games>

- Developed web API in Rust programming language using Rocket Rust web framework.
- Developed front end in Svelte and Tailwind.
- Deployed the back-end on Render.
- Deployed the front-end on GitHub pages.

TECHNOLOGY: Rust, Rocket, Svelte, TypeScript, Tailwind, Render

2024

**Streaming Platform** - Distributed Systems Course Project

- Developed a distributed group membership service.
- Developed a distributed file system using the group membership service.
- Developed a distributed stream-processing framework similar to Spark Streaming.
- Implemented with Go and gRPC.
- Used Docker to create virtual testing environment.

TECHNOLOGY: Go, Protocol Buffers, gRPC, Docker, Spark Streaming, TCP, UDP

2024

**UDP Controller**

- Implemented simple game in Bevy to act as a server.
- Created a mobile app that communicates over the local area network with a central server using Rocket Rust web framework.

TECHNOLOGY: Rust, Bevy, Android Studio, Kotlin

**Education**

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2024 - Now  
*One Year*

**University of Illinois Urbana Champaign** - URBANA CHAMPAIGN, ILLINOIS - GPA: 3.77

Master of Computer Science

Course Work: Distributed Systems, Database Systems

2021 - 2024  
*Three Years*

**University of Science and Technology** - ROLLA, MISSOURI - GPA: 3.94

Bachelor of Science in Computer Science, Minor in Mathematics