

## Adam McNeil Profile

St. Louis, Missouri - [github.com/adamMcneil](https://github.com/adamMcneil)  
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I am a full-stack software engineer with a passion for distilling requirements into real business problems and effective solutions. I develop solutions by drawing from my experience and embracing new languages and technologies. My programming language of choice is Rust for its efficiency and reliability, but I have experience with a wide range of technologies: Java, C++, TypeScript, and SQL.

## Experience

2023 - 2024  
*One Year*

**NISC** - SOFTWARE ENGINEER - LAKE ST. LOUIS

- Core maintainer of Habitat an open source tool for packaging, distributing, and running applications.
- Migrated the codebase to async/await and Tokio a Rust asynchronous runtime.

TECHNOLOGY: Java, PowerShell, Git, PostgreSQL, Oracle, GraphVis, Docker

2022  
*Three months*

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

Designed a work management system with a Node.js backend and responsive front-end.

TECHNOLOGY: C-sharp, Unity, Git, FireBase

## Projects

2019

**NATS Rust Client** - [github.com/davidMcneil/rants](https://github.com/davidMcneil/rants)

A full-featured, asynchronous client for the NATS messaging system.

TECHNOLOGY: Rust, NATS messaging system

2017

**The Rusty Web** - [github.com/davidMcneil/the-rusty-web](https://github.com/davidMcneil/the-rusty-web)

- One of the first complete resources detailing how to integrate Rust, compiled to asm.js or WebAssembly, into a web application.

- Benchmarked various implementations of the k-means clustering algorithm in different browsers.

TECHNOLOGY: asm.js, JavaScript, Rust, WebAssembly

2015 - 2016  
*One Year*

**Master's Thesis**

Developed a RISC architecture with assembler, compiler, and simulator capable of adding custom instructions for doing performance analysis of tradeoffs between hardware and software implementations.

TECHNOLOGY: Bison, C++, Flex, LLVM

2015 - 2016  
*Thirty Weeks*

**Machine Learning**

Developed an image classifier, optical character recognition software, resistor classifier, voice recognition software, and completed the Machine Learning certification program from Stanford University.

TECHNOLOGY: MATLAB/Octave, Neural Networks, Python, Support Vector Machines, TensorFlow, Torch

## Education

2024 - Now  
*One Year*

**University of Illinois Urbana-Champagn** - URBANA-CHAMPAGN, ILLINOIS

Master of Science in Computer Science

2021 - 2024  
*Three Years*

**University of Science and Technology** - ROLLA, MISSOURI

Bachelor of Science in Computer Science, Minor in Mathamatics

May 22, 2024