

Justin Meimar

Interested in the infrastructure that supports our internet. Strong foundations in the fundamentals of data structures and algorithms. Enjoy being surrounded with others enthusiastic about solving problems.

EXPERIENCE

Bits In Glass, Edmonton — *Appian Full Stack Developer Intern*

January 2022 - July 2022

- Worked in a robust team to develop enterprise applications that got off the ground quickly
- Worked extensively on UI/UX, adhering to best practices.
- Saw how large database models are designed, managed and created, then wrote smart and efficient queries against them.
- Became familiar with the phpMyAdmin tool and MariaDB.

EDUCATION

University of Alberta, — *B.S Spec. Computing* — GPA: 3.6 / 4.0

Fall 2020 - Winter 2024

- Key classes include: Algorithms, Operating Systems, Compiler Design, Machine Learning, Computer Architecture, GPU Programming, Software Engineering

PROJECTS

Gazprea Compiler — C++

November 2022 - December 2022

- Implemented the Gazprea language specification, a proprietary vector language made by IBM
- Placed 1st against five other teams of four in a competitive testing bracket.
- Written in C++ using ANTLR and LLVM bindings.
- Implemented multiple passes over an AST for symbol definition, resolution and static type checking.

Virtual 8-Bit CPU — Rust

June 2022

- A CPU that has a program counter, stack pointer, 8 registers and accepts 8 bit instructions for a custom ISA
- See github for examples. Can compute fibonacci numbers!

Book Store — Django + React

July 2020

- Python backend using Django kept models of many popular books using data from google's Book API
- Account creation and authentication with Django
- Implemented Serialization and pagination.
- React front end displays a user's books and interfaces.

TECHNOLOGIES

Confident Tools: Git, Django, React, Heroku, MongoDB, MariaDB, ANTLR, GDB, Valgrind, Ninja, CMake

Strongest Languages: C, C++, Python, JavaScript, TypeScript, LLVM IR, Shell, SQL

Learning: Haskell, Rust