Alexander Holiman

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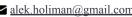
EDUCATION

University of Minnesota, MN   SEP 2021 - MAY 2025 (GPA: 3.6)
Computer Science (BA); Japanese Studies (MNR)
Kanda University of International Studies, Japan   AUG 2023 - DEC 2023 (GPA: 3.7)
Study Abroad, IES

SKILLS

Programming Languages: Rust, C, Python, C++, Java, Type/JavaScript, HTML, CSS, OCaml, Lua, Go, SQL
Frameworks/Tools/Tech: Git, GitHub, Django, Flask, SQLite, React/Node.js, Mongo/PostgreSQL, Docker, Vim
Operating Systems: Linux (Debian/Ubuntu, Arch), Bash scripting, x86-64 ASM, Linux file-system/CLI knowledge
Concepts: Machine Learning/AI (Pytorch, OpenAI API), Game/Software Development, Full-Stack, Embedded systems, Multithreading, DevOps, Graphic Programming, REST API, Databases, Data Structures, Computer Arch

PROFESSIONAL EXPERIENCE

University of Minnesota - *CSCI Teaching Assistant* | (C, ASM)   SEP 2024 - CUR (Minneapolis, MN)
- Leading a university computer science lab for topics in the class *Computer Architecture & Organization*
- Assisting students during office hours regarding course projects and assignments
- Teaching coding and computer arch concepts (ex: memory, cache, pointers, bit representations, etc.)

BestBrains - *Coding Instructor* | (Python, HTML/CSS)   MAY - SEP 2024 (Maple Grove, MN)
- Taught youth ages K-12 tech skills and foundational aspects of coding
- Directly explained coding concepts and helpful tools, assisted in promoting drive to learn
- Expanded ability to condense technical information to be easily understandable

NeverEnding - *Backend Developer* | (Python, Django, PostgreSQL)   MAY - AUG 2024 (Cleveland, OH)
- Built and deployed features for the 2D character creator tool
- Used local Postgres database to test API calls for dev build
- Created backend functions within a Django framework
- Implemented and debugged features for a custom color palette in the app
- Contributed ideas and helped architect the color palette back-end

PROJECT EXPERIENCE

Midas Language | (Rust, Java, ASM)
- Mini-language/compiler, basic parser/lexer, expression tree, literals, statements, global state, WIP

Capybara AI | (Three/React.js, JavaScript, HTML/CSS, Flask, Groq API)
- Groq AI chatbot with a capybara personalization, implements RESTful API calls, and conversation stored states

Box-It GUI | (Python, PyQT)
- File sorting app with drag & drop support for files, GUI in PyQt, customizable paths/names

Portfolio Website | (React, JavaScript, CSS/HTML)
- Customized website made without a component library. Serves as a personal portfolio displaying projects/more

NeoVim Config | (NeoVim, Lua)
- Personalized configuration for NeoVim suited for my Linux environment, LSP/linting support, code actions, etc

Text Rain | (TypeScript, GopherGfx)
- Website graphic project made in TypeScript, implements color collisions, text generation, customized settings