LIAM BECKMAN

liam@liambeckman.com | liambeckman.com/code

An open-source and free software enthusiast who loves making programs that work for people.

EDUCATION

Bachelor of Science; Computer Science — Oregon State University Postbaccalaureate, 3.58 GPA
Expected graduation Fall 2019   Corvallis, OR

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Bachelor of Science; Biology — University of Oregon Presidential Scholar, 3.34 GPA
Graduated June 2017   Eugene, OR

EXPERIENCE

▷ **Linux Kernel** : 2 years experience with configuring and compiling custom Linux kernels for personal use.

▷ **Windows Kernel** : 6 months experience with debugging Windows kernels, threads, and API's with WinDbg.

▷ **Multithreading** : 1 year experience using pthreads with C, 6 months experience using OpenMP with C/C++.

PROJECTS

liambeckman.com/code — personal website and portfolio
JavaScript, HTML, CSS, Jekyll   github.com/lbeckman314/website

A website that presents a variety of my projects and software development tools, including a Git server and an instance of Jenkins continuous integration service. The website and all projects are hosted on a modest single-board computer (Raspbian on RPi3 Model B).

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RemoveMyWaste — application for hazardous waste removal
Java, MariaDB/MySQL, SQLite, JavaScript, HTML, CSS   github.com/cs361-group24/RemoveMyWaste

An Android and web application with the purpose of giving anyone the ability to safely dispose of hazardous household and industrial materials. Users can locate disposal centers near them, as well as read specific information on the materials they wish to dispose of. The web interface may be found at removemywaste.liambeckman.com.

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devilish* — portable shell for *nix operating systems
C   github.com/lbeckman314/devilish

A minimalistic shell for Unix-like operating systems. Allows for standard input/output redirection, foreground/background processes, and SIGTSTP/SIGINT signal handling.

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matriz* — mathematics shell program
Bash   github.com/lbeckman314/matriz

A shell script for managing matrix operations including multiplication, addition, and transposition. A matrix generator is included in the available functions.

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prime* — program for calculating large prime numbers
C++   github.com/lbeckman314/prime

A program that uses the Sieve of Eratosthenes to compute a given prime number selected by the user.

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wyeast* — A multithreaded text adventure game.
C   github.com/lbeckman314/wyeast

Creates a random graph of connected structs and utilizes POSIX Threads to help implement a user-driven command line adventure game.

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* Interactive demos available at liambeckman.com/code#terminal   LaTeX source: git.io/fhsem