LIAM BECKMAN

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A self-driven developer who loves helping organizations increase their impact by crafting software and solutions that work for people.

LATEX source: git.io/fhsem

Bachelor of Science; Computer Science — Oregon State University Postbaccalaureate, 3.64 GPA

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Graduated June 2019	Corvallis, OR
Bachelor of Science; Biology — University of Oregon Presidentia Graduated June 2017	al Scholar, 3.34 GPA Eugene, OR
EXPERIENCE	
▷ Object Oriented Design — 1+ years developing software w.	ith OOD principles in Java and JavaScript.
⊳ Scripting Languages — 1+ years scripting projects and wor	kflows with Python and Bash.
ightharpoonup Unix — 2 years developing software on GNU+Linux systems	(currently running self-compiled 5.1.6 kernel).
▷ Software Workflows — 2 years working with and releasing p on a personal Raspberry Pi provide continuous integration and	
PROJECTS	
Voyager Index* — quality of life application to help world traveler	
JavaScript, PostgreSQL, Go, Python, HTML, CSS	${\rm github.com/voyager\text{-}index}$
A world map of over 7,000 cities ranked by over 23 user-selected filte economic, and safety data. A command line interface with signed relallows anyone to leverage the Voyager Index database to build their	leases for Windows, macOS, Linux, and BSD's
RemoveMyWaste — map application for hazardous waste remova Java, MariaDB/MySQL, SQLite, JavaScript, HTML, CSS	l. ${\rm github.com/cs361\text{-}group24/RemoveMyWaste}$
An Android and web application with the purpose of giving anyone household and industrial materials. Users can locate disposal centers on the materials they wish to dispose of. The web interface may be	s near them, as well as read specific information
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devilish* — portable shell for *nix operating systems.	${\rm github.com/lbeckman} 314/{\rm devilish}$
A minimalistic shell for Unix-like operating systems. Allows for stan foreground/background processes, and SIGTSTP/SIGINT signal har	- , -
withfeathers* — poetry web app and shell program.	
Python, Flask	${\rm github.com/lbeckman} 314/{\rm with feathers}$
Fetches, parses, and selects a random poem by Emily Dickinson from at withfeathers.liambeckman.com makes these poem selections available.	
matriz* — mathematics shell program. Bash	${\it github.com/lbeckman} 314/{\it matriz}$
A shell script for managing matrix operations including multiplication generator is included in the available functions.	on, addition, and transposition. A matrix
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.

* Interactive demos available at liambeckman.com/code#terminal

COURSES

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CS 165 — Accelerated Introduction To Computer Science
CS 225 — Discrete Structures In Computer Science
CS 261 — Data Structures
CS 271 — Computer Architecture And Assembly Languague
CS 290 — Web Development
CS 325 — Analysis Of Algorithms
CS 340 — Introduction To Databases
CS 344 — Operating Systems I
CS 361 — Software Engineering I
CS 362 — Software Engineering II
CS 372 — Introduction To Computer Networks
CS 373 — Defense Against The Dark Arts
CS 467 — Online Capstone Project
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EXTRAS

University of Oregon Honors Biology Lab — Eugene, OR

▷ CS 475 — Introduction To Parallel Programming

Lab Prep Assistant

September, 2014 — June, 2015

Prepared materials and procedures for The Honors Biology Lab curriculum at the University of Oregon. Relevant responsibilities included making and curing petri plate solutions, evaluating states and types of bacterial growth, and studying the processes and mechanisms of cytological phenotypic expression and function.

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NSF Funded REU at the University of Minnesota — Minneapolis, MN

Student Researcher—Botanical Genetics

May — August, 2014

Conducted research involving botanical DNA isolation, purification, sequencing, and analysis; examined the effect of personally designed genetic markers had on a tropical tree's evolution/phylogeny; presented results and conclusions at the following scientific conferences:

- ▶ The 2015 AAAS Emerging Researchers National Conference in STEM hosted in Washington D.C.
- ▷ The 2015 University of Oregon Undergraduate Research Symposium
- ▶ The 2014 University of Minnesota Undergraduate Symposium

Ecological Apprenticeship at H.J. Andrews Experimental Forest — Blue River, OR

Student Researcher—Ecology and Restoration

June — August, 2013

Analyzed forest networks and plant response to fire disturbances; surveyed plant communities in experimental sub-alpine meadows as part of ongoing research; published study in *Restoration Ecology: The Journal of the Society for Ecological Restoration* ("Vegetation Recovery in Slash-Pile Scars Following Conifer Removal in a Grassland-Restoration Experiment", November 2014).