LIAM BECKMAN

$liam@liambeckman.com \mid liambeckman.com/code$

A self-driven developer who loves helping organizations increase their impact by crafting software and solutions that work for people. Online resume available at liambeckman.com/resume.

EDUCATION	
Bachelor of Science; Computer Science — Oregon State University Postba Graduated June 2019	ccalaureate, 3.64 GPA Corvallis, OR
Bachelor of Science; Biology — University of Oregon Presidential Scholar, 3 Graduated June 2017	.34 GPA Eugene, OR
EXPERIENCE	
Software Workflows — 2 years working with and releasing projects via on a personal single board computer provide continuous integration and de	
ightharpoonup Unix — 2 years developing software on GNU+Linux systems (currently re	unning self-compiled 5.1.6 kernel).
▷ Object Oriented Design — 1+ years developing software with OOD pri	inciples in Java and JavaScript.
\triangleright Scripting Languages — 1+ years scripting projects and workflows with	Python and Bash.
PROJECTS	
Voyager Index* — quality of life application to help world travelers find their JavaScript, PostgreSQL, Go, Python, HTML, CSS	$\begin{array}{c} \text{next home.} \\ \text{github.com/voyager-index} \end{array}$
Spearheaded the development of the server and CLI for the Voyager Index projecities ranked by 23 user-selected filters. It includes national and international cli	- · · · · · · · · · · · · · · · · · · ·
\vartriangleright Standardized server interactions with the database (via the asynchronous f	$function swimming_pool()).$
 ▶ Hosted entire PostgreSQL database on personal single board computer (Ra ▶ Integrated and configured webpack and Node.js development workflows. 	aspbian on RPi3 Model B).
RemoveMyWaste — map application for hazardous waste removal. Java, MariaDB/MySQL, SQLite, JavaScript, HTML, CSS	${\it github.com/RemoveMyWaste}$
Lead development of RemoveMyWaste, an application for the safe disposal of ha materials. Users can locate disposal centers near them and read information on t	
ightharpoonup Created Android and web interfaces. Hosted web and database component	s on personal server.
demo* — terminal emulator emulator that allows users to try out programs.	
Node.js, JavaScript, Go	${\it github.com/lbeckman} 314/{\it demo}$
Created a suite of remote applications to allow users to try out programs and presimple web app, reading documentation, or even experimenting from the comma via WebSockets and run in a lightweight Linux sandbox (currently a Debian chreater).	nd line. Processes are communicated
withfeathers* — poetry web app and shell program. "'Hope' is the thing with	

Developed a web app and CLI that fetches, parses, and selects a random poem by Emily Dickinson from Project Gutenberg. A hostable web interface at withfeathers.liambeckman.com makes these poem selections available to

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

Python, Flask

anyone with an internet access.

LATEX source: git.io/fhsem

github.com/lbeckman 314/with feathers

COURSES

- ▷ 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
- ightharpoonup CS 290 Web Development
- ▷ CS 325 Analysis Of Algorithms
- ightharpoonup 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
- ▶ CS 475 Introduction To Parallel Programming

EXTRAS

University of Oregon Honors Biology Lab — Eugene, OR

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.

"Research Experiences for Undergraduates" Internship at 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).