LIAM BECKMAN

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A self-driven developer with a passion for crafting software and solutions that work for people.

EDUCATION	
Bachelor of Science; Computer Science — Oregon State University Corvallis, OR / Welches, OR	Class of 2019
Bachelor of Science; Biology — University of Oregon Eugene, OR / Uppsala, Sweden	Class of 2017
TECHNICAL WORK EXPERIENCE	
	emiology 2019 — 2020
Furthered development of the Swing desktop application used to curate data for Reactome — an opdatabase and visualizer of biological pathways used for research. Specific responsibilities included:	oen-source
▶ Updating API calls and data processing of a remote NLP document parser (REACH).	
▷ Implementing a custom class to flag pathway and reaction revisions between varying data sets.	
▶ Adding new features based on communication with users and database curators.	
SELECTED PROJECTS	
	2019 — Present
\triangleright A backend for the mdBook documentation program that converts Markdown sources to IATEX and	ıd PDF.
demonic — Interactive demos of programs and programming languages. Node.js, JavaScript, Go	2018 — Present
> A suite of applications that allows users to try out programs and programming languages by accessible web interface, reading documentation, or even experimenting from the command line.	essing a simple
▷ Processes are communicated via WebSockets and run in a lightweight Linux sandbox (Debian chr Firejail).	
withfeathers — Poetry web app and shell program. "'Hope' is the thing with feathers" Python, Flask	2018 — Present

- ${\color{blue}\triangleright}\ A\ web\ app\ and\ CLI\ that\ fetches,\ parses,\ and\ selects\ a\ random\ poem\ by\ Emily\ Dickinson\ from\ {\color{blue}Project}\ Gutenberg.$
- ${\color{blue}\triangleright}\ A\ hostable\ web\ interface\ at\ with feathers. liambeck man.com\ displays\ a\ new\ poem\ every\ day.$

GENERAL WORK EXPERIENCE

Ski and Snowboard Technician and Shop Hand — Mountain Sports

Welches, OR Winter 2018, Winter 2019

 ${\triangleright}$ Assisted customers in finding, tuning, and renting or buying select winter gear.

Lab Prep Assistant — University of Oregon Honors Biology Lab

Eugene, OR 2014 — 2015

> Prepped and sterilized materials for undergraduate biology lab courses

 ${\,\vartriangleright\,}$ Set up personal computers for use with lab-focused programs.

Student Researcher — Botanical Genetics — University of Minnesota

Minneapolis, MN Summer 2014

> Conducted research involving botanical DNA isolation, purification, sequencing, and analysis

▶ Presented results and conclusions at three scientific conferences.

 ${\bf Student \ Researcher -- \ Ecology \ and \ Restoration -- {\rm H.J. \ Andrews \ Experimental \ Forest}}$

Blue River, OR Summer 2013

▶ Analyzed forest networks and plant response to fire disturbances.

▷ Surveyed plant communities in experimental sub-alpine meadows as part of ongoing research.

COURSES COMPLETED AT OREGON STATE UNIVERSITY

▷ CS 165 — Accelerated Intro to Computer Science ▷ CS 344 — Operating Systems I

 ▶ CS 225 — Discrete Structures in Computer Science
 ▶ CS 361 — Software Engineering I

ightharpoonup CS 261 — Data Structures ightharpoonup CS 362 — Software Engineering II

ightharpoonup CS 271 — Computer Architecture and Assembly ightharpoonup CS 372 — Introduction to Computer Networks

▷ CS 290 — Web Development
▷ CS 373 — Defense Against the Dark Arts

▷ CS 325 — Analysis of Algorithms ▷ CS 467 — Online Capstone Project

▶ CS 340 — Introduction to Databases
▶ CS 475 — Introduction to Parallel Programming

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