LIAM BECKMAN

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

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	lass of 2019
Bachelor of Science; Biology — University of Oregon Eugene, OR / Uppsala, Sweden	lass of 2017
TECHNICAL WORK EXPERIENCE	
Research Software Developer — OHSU, Department of Medical Informatics and Clinical Epidemiolo Portland, OR	gy — Present
Furthered development of the Swing desktop application used to curate data for Reactome — an open-sod database and visualizer of biological pathways used for research. Specific responsibilities included:	ource
▶ 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	
mdbook-latex — A documentation backend for LaTeX and PDF generation. Rust, LaTeX 2019	— Present
\triangleright A backend for the mdBook documentation program that converts Markdown sources to IATEX and PD	F.
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 accessing web interface, reading documentation, or even experimenting from the command line.	a simple
▷ Processes are communicated via WebSockets and run in a lightweight Linux sandbox (Debian chroot series).	ecured with
withfeathers — Poetry web app and shell program. "'Hope' is the thing with feathers" Python, Flask	— Present
▷ 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 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

▷ CS 261 — Data Structures
▷ 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

LATEX source: github.com/lbeckman314/resume Compiled: 2020-09-01