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 Class of 201
Bachelor of Science; Biology — University of Oregon Eugene, OR / Uppsala, Sweden Class of 201
TECHNICAL WORK EXPERIENCE
Research Software Developer — OHSU, Department of Medical Informatics and Clinical Epidemiology Portland, OR 2019 — Present
Furthered development of the Swing desktop application used to curate data for Reactome — an open-source database and visualizer of biological pathways used for research. Specific responsibilities included:
▶ 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 — Preser
\triangleright A backend for the mdBook documentation program that converts Markdown sources to IATEX and PDF.
demonic — Interactive demos of programs and programming languages. Node.js, JavaScript, Go 2018 — Preser
▶ A suite of applications that allows users to try out programs and programming languages by accessing a simple web interface, reading documentation, or even experimenting from the command line.
▷ Processes are communicated via WebSockets and run in a lightweight Linux sandbox (Debian chroot secured wit Firejail).
withfeathers — Poetry web app and shell program. "'Hope' is the thing with feathers" Python, Flask 2018 — Preser

- > A web app and CLI that fetches, parses, and selects a random poem by Emily Dickinson from Project Gutenberg.
- $\,\vartriangleright\,$ A hostable web interface at with feathers.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

> Assisted customers in finding, tuning, and renting or buying select winter gear.

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${\bf Lab\ Prep\ Assistant-} {\bf University\ of\ Oregon\ Honors\ Biology\ Lab}$

Eugene, OR 2014 - 2015

 $\,\vartriangleright\,$ Prepped and sterilized materials for undergraduate biology lab courses

 ${\,\vartriangleright\,}$ Set up per sonal 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.

Student Researcher — **Ecology and Restoration** — 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

ightharpoonup CS 165 — Accelerated Intro to Computer Science ightharpoonup 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

▷ CS 271 — Computer Architecture and Assembly □ 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: 2020-06-27