# 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 2019
Bachelor of Science; Biology — University of Oregon Eugene, OR / Uppsala, Sweden	Class of 2017
TECHNICAL WORK EXPERIENCE	
Research Software Developer — OHSU, Department of Medical Informatics and Clinical Epic Portland, OR	demiology 2019 — 2020
Furthered development of the Swing desktop application used to curate data for Reactome — an 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	
$\mathbf{mdbook\text{-}latex}$ — 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 LaTeX a	and PDF.
demonic — Interactive demos of programs and programming languages.  Node.js, JavaScript	2018 — Present
▶ A suite of applications that allows users to try out programs and programming languages by acterminal or running code snippets.	cessing a web
▷ Processes are communicated via WebSockets and run in a lightweight Linux sandbox (Debian clarification).	hroot secured with
withfeathers — Poetry web app and shell program. "'Hope' is the thing with feathers" Python, Flask	2018 — Present

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

#### 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

- $\,\vartriangleright\,$  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.

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

- ▷ 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

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