# 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.

$\mathbf{E}$	D	T	1	7.	Δ٦	$\Gamma T$	(	1	J
.,	.,		, .	, ,	•		•		и

terminal or running code snippets.

Firejail).

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	
Full Stack Software Developer — Saltire Softare Inc. Portland, OR	2022 — Present
Contributed to the fullstack development of e-commerce and math & music educational sites.	
▷ Integrated RESTful APIs for use in authenticating clients during online checkouts.	
$\triangleright$ Set up and managed hosting and SSL certification for <i>On the Sensations of Tone</i> .	
Research Software Developer — OHSU, Department of Medical Informatics and Clinical Epider Portland, OR	miology 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.	en-source
$\triangleright$ Implemented a custom class to flag pathway and reaction revisions between varying data sets.	
${\scriptstyle \triangleright}\   {\rm Added}\   {\rm new}\   {\rm UI/UX}\   {\rm features}\   {\rm based}\   {\rm upon}\   {\rm communication}\   {\rm with}\   {\rm users}\   {\rm and}\   {\rm research}\   {\rm database}\   {\rm curators}\   {\rm upon}\   {\rm communication}\   {\rm with}\   {\rm users}\   {\rm and}\   {\rm research}\   {\rm database}\   {\rm curators}\   {\rm upon}\   {\rm curators}\   {\rm upon}\   {\rm curators}\   {\rm upon}\   {\rm$	S.
$\vartriangleright$ Updated API calls and data processing of a remote NLP document parser (REACH).	
${\scriptstyle \triangleright}\ \ \text{Received coauthor credit in}\ \textit{Nucleic Acids Research} \\ \text{The reactome pathway knowledgebase}\ 202$	2.
SELECTED PROJECTS	
convida — Conway's Game of Life powered by WebAssembly. Rust, WebAssembly, JavaScript	2019 — Present
▷ A Conway's Game of Life simulation with a high performance WebAssembly compilation target.	
$\triangleright$ A demonstration is available at convida.liambeckman.com.	
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 acce	ssing a web

> Processes are communicated via WebSockets and run in a lightweight Linux sandbox (Debian chroot secured with

withfeathers — Poetry web app and shell program. "'Hope' is the thing with feathers - ..."

Python, Flask

2018 — Present

- ▶ A web app and CLI that fetches, parses, and selects a random poem by Emily Dickinson from Project Gutenberg.
- ▷ A Flask-powered web interface at withfeathers.liambeckman.com displays a new poem every day.

#### GENERAL WORK EXPERIENCE

## Ski and Snowboard Technician and Shop Hand — Next Adventure

Portland, OR 2021-2022

> Assisted 50+ customers a day in fitting, renting, and tuning mountaineering and snowsports equipment.

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

Eugene, OR

2014 - 2015

- ▶ Prepped and sterilized materials for undergraduate biology lab courses.
- ▷ 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.
- ▶ Coauthored results in *Restoration Ecology* Vegetation Recovery in Slash-Pile Scars Following Conifer Removal in a Grassland-Restoration Experiment.

### COURSES COMPLETED AT OREGON STATE UNIVERSITY

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

ightharpoonup CS 225 — Discrete Structures in Computer Science ightharpoonup 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

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

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

LATEX source: github.com/lbeckman314/resume Compiled: 2022-08-02