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 Epider Portland, OR	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.	pen-source
▷ Implemented custom class to flag pathway and reaction revisions between varying data sets.	
\triangleright Added new UI/UX features based upon communication with users and database curators.	
▶ Updated API calls and data processing of a remote NLP document parser (REACH).	
${\tt \triangleright} \ \ {\tt Coauthored} \ {\tt project} \ \ {\tt updates} \ {\tt in} \ \textit{Nucleic} \ \textit{Acids Research} \ {\tt The} \ {\tt reactome} \ {\tt pathway} \ {\tt knowledgebase}$	2022.
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 IATEX are	nd 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 accepterminal or running code snippets.	essing a web
▷ Processes are communicated via WebSockets and run in a lightweight Linux sandbox (Debian chr Firejail).	root secured with
withfeathers — Poetry web app and shell program. "'Hope' is the thing with feathers" Python, Flask	2018 — Present

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

GENERAL WORK EXPERIENCE

Ski and Snowboard Technician and Shop Hand — Next Adventure

Portland, OR 2021 — Present

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

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.

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

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

 ▶ 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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