LIAM BECKMAN

liam@liambeckman.com | 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 Postbac Corvallis, OR / Welches, OR	ccalaureate September, 2017 — June, 2019
Bachelor of Science; Biology — University of Oregon Presidential Scholar Eugene, OR / Uppsala, Sweden	September, 2013 — June, 2017
TECHNICAL WORK EXPERIENCE	
Research Software Developer — OHSU, Department of Medical Informatics Portland, OR	and Clinical Epidemiology September, 2019 — June, 2020
Further developed and maintained the Swing desktop application used to curate open-source database and visualizer of biological pathways used in research. Spec	
\triangleright Implementing an "UpdateTracker" class to flag pathway and reaction revisions	between two different data sets.
\vartriangleright Extending the look and feel of entities and complexes to relfect drug status.	
\triangleright Updating API calls and data processing of a remote NLP document parser (RI	EACH).
SELECTED PROJECTS	
demonic* — Interactive demos of programs and programming languages. Node.js, JavaScript, Go	
A suite of applications that allows users to try out programs and programming lainterface, reading documentation, or even experimenting from the command line. WebSockets and run in a lightweight Linux sandbox (Debian chroot secured with	Processes are communicated via
liambeckman.com* — Personal website, development platform, and portfolio. JavaScript, HTML, CSS	
A personal website and collection of software development tools, including a Git website and all projects are hosted on personal servers (Raspbian on RPi3 Model	
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A documentation program that takes Markdown input and produces LaTeX output PDF compilation (e.g. the official introductory book to Rust — <i>The Rust Progra</i>	-
withfeathers* — Poetry web app and shell program. "'Hope' is the thing with Python, Flask	
A web app and CLI that fetches, parses, and selects a random poem by Emily Dinbotable web interface at withfeathers.liambeckman.com displays a new poem even	·

Voyager Index — Quality of life application to help world travelers find their next home.

Spearheaded the development of the server and CLI for the Voyager Index project — a world map of over 7,000 cities ranked by 23 user-selected filters. My largest contributions included standardizing server interactions with the database, hosting the PostgreSQL database on personal server, and designing and presenting the finished product.

* Personal project.

JavaScript, PostgreSQL, Go, Python, HTML, CSS

GENERAL WORK EXPERIENCE

Ski and Snowboard Technician and Shop Hand — Mountain Sports

Welches, OR

January — April, 2019

Assisted customers in finding, tuning, and renting or buying select winter gear. I regularly guided them in choosing skis, snowboards, snowshoes, or cold-weather apparel that would keep them safe while exploring the Mt. Hood wilderness. Other responsibilities included restocking equipment, maintaining sale records, and recommending recreational areas based on customer experience.

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Lab Prep Assistant — University of Oregon Honors Biology Lab

Eugene, OR

September, 2014 — June, 2015

Prepared materials and procedures for The Honors Biology Lab curriculum at the University of Oregon. Relevant responsibilities included making and curing petri plate solutions, evaluating states and types of bacterial growth, and studying the processes and mechanisms of cytological phenotypic expression and function.

Student Researcher — Botanical Genetics — University of Minnesota

Minneapolis, MN

May — August, 2014

Conducted research involving botanical DNA isolation, purification, sequencing, and analysis; examined the effect of personally designed genetic markers had on a tropical tree's evolution/phylogeny; presented results and conclusions at the following scientific conferences:

- ▶ The 2015 AAAS Emerging Researchers National Conference in STEM hosted in Washington D.C.
- ▶ The 2015 University of Oregon Undergraduate Research Symposium
- ▷ The 2014 University of Minnesota Undergraduate Symposium

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Student Researcher — Ecology and Restoration — H.J. Andrews Experimental Forest

Blue River, OR

June — August, 2013

Analyzed forest networks and plant response to fire disturbances; surveyed plant communities in experimental sub-alpine meadows as part of ongoing research; published study in *Restoration Ecology: The Journal of the Society for Ecological Restoration* ("Vegetation Recovery in Slash-Pile Scars Following Conifer Removal in a Grassland-Restoration Experiment", November 2014).

COURSES

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

ightharpoonup CS 340 — Introduction to Databases ightharpoonup CS 475 — Introduction to Parallel Programming

IAT_FX source: github.com/lbeckman314/resume Compiled: March 15, 2020