LIAM BECKMAN

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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	lemiology 2019 — Present
Furthered development of the Swing desktop application used to curate data for Reactome — a database and visualizer of biological pathways used for research. Specific responsibilities included:	an open-source
\triangleright 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	
$ \begin{array}{l} \mathbf{mdbook\text{-}latex*} & \ \mathbf{A} \ \mathbf{documentation} \ \mathbf{backend} \ \mathbf{for} \ \mathbf{L\!\!^{A}\!T\!E\!X} \ \mathbf{and} \ \mathbf{PDF} \ \mathbf{generation}. \\ \mathbf{Rust}, \ \mathbf{L\!\!^{A}\!T\!E\!X} \end{array} $	2019 — Present
A backend for the \mbox{mdBook} documentation program that converts Markdown sources to $\mbox{LAT}_{\mbox{E\!X}}$ and	nd PDF.
Voyager Index — Quality of life application to help world travelers find their next home. JavaScript, PostgreSQL, Go, Python, HTML, CSS	2019 — Present
A world map of over 7,000 cities ranked by user-selected filters. Personally spearheaded the development and CLI for the Voyager Index project. Specific contributions included standardizing server the database, hosting the PostgreSQL database on a personal Raspberry Pi, and presenting the filters.	interactions with nal product.
demonic* — Interactive demos of programs and programming languages. Node.js, JavaScript, Go	2018 — Present
A suite of applications that allows users to try out programs and programming languages by access interface, reading documentation, or even experimenting from the command line. Processes are via WebSockets and run in a lightweight Linux sandbox (Debian chroot secured with Firejail).	e communicated
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 Pr	oject Gutenberg.

A hostable web interface at withfeathers.liambeckman.com displays a new poem every day.

* Personal project.

GENERAL WORK EXPERIENCE

Ski and Snowboard Technician and Shop Hand — Mountain Sports

Welches, OR Winter 2018, Winter 2019

▶ Assisted customers in tuning skis and snowboards, recommending local trails and recreational areas, and renting and buying select winter gear. Other responsibilities included itemizing, inspecting, and restocking equipment.

Lab Prep Assistant — University of Oregon Honors Biology Lab

Eugene, OR

2014 - 2015

- > Prepped materials and cleaned up workstations for undergraduate biology lab courses.
- ▷ Set up student computers with programs used to collect, analyze, and present lab data.
- ▶ Monitored growth and maintenance of plant, animal, and microbial lab specimens.

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.

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

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.
- ▶ 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 COMPLETED AT OREGON STATE UNIVERSITY

▷ CS 165 — Accelerated Intro to Computer Science ▷ CS 344 — Operating Syste

▷ CS 225 — Discrete Structures in Computer Science ▷ CS 361 — Software Engineering I

▷ CS 261 — Data Structures
▷ 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

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

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

LATEX source: github.com/lbeckman314/resume Compiled: 2020-09-01