

Liz Howard

Engineer, Educator, Entrepreneur, Technical Manager, Engineering Leader

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EXPERIENCE

[Karat.io](https://www.karat.io/), Remote — *Researcher*

Oct 2019 - Oct 2022

- Web-scraped industrial scale data to establish *construct validity* and *ecological validity*.
- Improved team content production speed 30x with data
- Developed the competency model for software engineers used in over 225,000 interviews.
- Performed OSINT (Open-Source Intelligence) research on thousands of corporations.
- Hands-on coding in **Python** and **JavaScript**.

[CodePath.org](https://www.codepath.org/), Remote – *CyberSecurity Professor*

2019 - 2020

- Taught *CyberSecurity program*; provided technical and instructional leadership.
- Wrote and taught a 3-year *Data Structures and Algorithms program*.
- Ran DevOps for an active *Capture The Flag* competition.
- Improved NPS scores to 90+ for all courses.

[Enki.com](https://www.enki.com/), Remote — *Hands-On CTO*

2017 - 2019

- Led a **team of 25, spread over 9 timezones speaking 11 languages**.
- Launched 18 technical courses using standards-first design
- Developed an **adaptive learning algorithm** using IRT on a framework of 300+ competencies.
- Ran DevOps and scaled the product from ~50k to **over one million users**.
- **Launched 3 new lines of business in 18 months**, EnkiTest, EnkiCamp, and EnkiBot.
- Hands-on in **Node.js & Python**, Team built in **React**, & **React Native**.

[Galvanize.com](https://www.galvanize.com/), San Francisco — *Web Dev*

2015 - 2017

- Live-coded cutting edge technology and complex algorithms daily in front of 30+ students
- Wrote Curriculum from the ground up for a 6-month web development program featuring **Node.js**, **Postgres + Mongo**, **React**, and **Computer Science Fundamentals**, focused on improving the hiring rate in San Francisco where interviews are competitive.
- **Hiring rate improved from 67% -> 92%**

[Hipcamp.com](https://www.hipcamp.com/), San Francisco – *Founding CTO*

2014+

- Architected and built Hipcamp.com's first site
- Added new features at competitive startup speed
- Built an industrial-scale web scraper that enabled us to offer national availability
- Hired the first team and delivered a responsive mobile-friendly web front end

Hands-on as Founding CTO in Ruby on Rails and Node.js

[HackbrightAcademy.com](https://www.hackbrightacademy.com/), San Francisco — *Lead Instructor*

2012 - 2015

- Founded an 11-week coding bootcamp for women with industry-leading placement rates
- Wrote and managed the “full stack” of a bootcamp from the ground up- from admissions interview to lecture, curriculum development through project evaluation.
- Pair-programmed with new coders daily to improve their skills and troubleshoot issues
- Led students as technical faculty advisor through a 5-week project phase building out a diverse variety of projects such as **compilers**, **database engines**, **ML algorithms**, and **full-stack web applications** in **Python**.
- NPS at **90+** for me personally as an instructor, and the program overall
- **98% graduated & 96% placed in software engineering roles**

LOOKING FOR

a new challenge that leverages my skills as an educator, my large audience, artificial intelligence, and my broad technical capabilities to execute on an audacious project.

TECH SKILLS

20+ years as an engineer writing code

- Python for Data Analysis or Web
- SQL & NoSQL
- Node.js
- AWS & Google Cloud
- Apache & NGINX
- Kubernetes & Docker
- Machine Learning for classification, generation, NLP
- Large Language Models (Prompt Engineering)
- VLLM Emerging Tech
- React / Vue.js

