JACK ERSBO

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PROFESSIONAL SUMMARY

I am a former academic researcher who is making the transition to web development. During my time in research, I was part of a lab which studied many facets of human phonation (voice). With a great PI, team, and other staff supporting me, I was successful in publishing articles in notable medical journals and giving presentations to disseminate our research. Due to the engineering nature of our lab, I was exposed to lots of interesting tech including custom GUIs, data collection interfaces, and machine learning programs. This sparked my intention to transition into web development.

EDUCATION

UNIVERSITY OF WISCONSIN, COLLEGE OF ENGINEERING — Madison, WI
ThriveDX Web Development Bootcamp — May 2022
Courses: HTML5, CSS3, JavaScript/TypeScript, Python, React.js., Redux, APIs, UI/UX Design

UNIVERSITY OF WISCONSIN-MADISON — Madison, WI
Bachelor of Science, Neurobiology — May 2020
Certificate, Global Health Studies

SKILLS PROFILE

Development Technologies: Node.js, Flask, React.js, Express.js
Databases: PostgreSQL, MySQL, MongoDB (NoSQL)
Deployment Tools: AWS, Heroku, Netlify
Languages: HTML, CSS, JavaScript/TypeScript, Python
Intangibles: Communication (written & verbal), problem solving, creative, driven, passionate

PROJECT EXPERIENCE

ChenequaFarms.com | Freelance — **November 2022**

- **Stack: Node.js, React, Express.js, PostgreSQL, Sequelize.js**
- Building an enterprise-scale application for a family farm. App functions as a point-of-service.
- Responsible for all phases of design, development, testing, deployment, and coordination with the client.

LISTR | Independent Project

- **Stack: Node.js, React, Express.js, PostgresSQL, Sequelize.js**
- A list and task-planning application with full REST/CRUD functionality. Originally built for my partner and I to use for our weekly trips to the grocery store. Thus, it is mobile-only.
- Found here: https://listr-ersbo.herokuapp.com/

PARKSPOT | Independent Project

- **Stack: Node.js, React, Express.js, PostgresSQL, Sequelize.js**
- A marketplace for listing and reserving parking spots in people's yards. Its primary use-case is during college football season here in Madison, WI. Mobile and desktop supported.
- Found here: https://parkspot-client.herokuapp.com/

MARSHES' MELONS | Independent Project

- **Stack: Node.js, JavaScript, jQuery, Phaser.js, Express.js, MongoDB**
- A platformer-style browser game that utilizes Phaser.js, a game engine library, in conjunction with the HTML canvas element and other DOM manipulation methods. Desktop only.
- Found here: https://jhersbo.github.io/marshes-melons/

PROFESSIONAL EXPERIENCE

Univ. Wisconsin Laryngeal Physiology Lab, Madison, WI May 2020 - July 2022
Lab Manager and Senior Research Specialist

- Fast-paced, engineering-driven, collaborative environment.
- Helped maintain the lab's codebases (primarily in Python, Matlab, LabView, and C#). Built and deployed small Node.js web applications to help with human subject recruitment and data collection. Took initiative to update the lab's staff website and created documentation for future managers.
- Managed up to 25 undergraduate researchers; tracked their progress and gave direction when they needed help. Hiring manager for students and full-time staff.
- Key person in grants administration consisting of reports to the NIH, PHS, and other funding agencies (3 RO1 grants totaling over $4 million in total support).
- Oversaw the production and publication of over a dozen scientific articles. Helped coordinate academic collaborations with other universities, both domestic and foreign.
- Published my own work—an example below:
  Fang, Yanqing; Zhang, Kun; **Ersbo, Jack H.**; Chen, Bing. *The Impact of the Frequency-Specific Preoperative Sensorineural Hearing Loss to Postoperative Overclosure of Bone Conduction in Stapedotomy*. Otology & Neurotology: October 2021 - Volume 42 - Issue 9 - p 1314-1322

Univ. Wisconsin Laryngeal Physiology Lab, Madison, WI April 2018 – May 2020
Undergraduate Research Assistant

- Pursued both independent and collaborative research. Led one of the lab's research teams.
- Specialized in instrumentation and imaging. Adapted new techniques for studying laryngeal tissue composition including XCLARITY, MYOCLEAR, OrgoClear (proprietary), Optical Coherence Tomography, Tissue Dielectric Property measurement.
- Published one manuscript and gave two conference poster presentations.