John R. Ericson

jrericson.dev@gmail.com ✦ Bend, OR, 97701 ✦ github/JREricson

RELEVANT WORK EXPERIENCE

Web Engineer -- Freelance consulting for the following sites **Dec 2022 – Present**

- **Sage Academic Support and Enrichment**: (HTML/CSS/React/Bootstrap/Netlify) Completely redesigned website from scratch handling DNS migration. Responsible for adding new content. https://sageacademicsupport.com/
- **Animal Care Foundation:** (HTML/CSS/Weebly). Designed page components and structure of the website. Helped the team to become independent at adding new content. https://www.animalcarefoundation.org/

Backend Development Engineering Contractor -- Carterhaugh LLC -- Remote **Mar 2022 – June 2022**

- Primary programmer on a new project that collected information from public sources and transformed through business logic to meet client needs. Administrative user interface was designed using React and Bootstrap. Communication through backend and frontend in monorepo was performed using RPC.
- **Techstack**: Typescript, Postgres, Lerna, React, Google OAuth, AWS S3, confidential services and APIs.

Tutor -- Santa Barbara City College -- Remote **Sept 2020 – June 2021**

- Assisted students in Java, C, C++, Python, Data Structures, and Computer Architecture courses.

Chemist -- Nitto Denko Technical Corporation -- Oceanside, CA **May 2013 – Aug 2022**

- Substantially contributed to research and development of thin films antibacterial nanocomposites and graphene oxide membranes leading to significant changes in compositions present in final deliverables and patented IP.

EDUCATION

Georgia Tech -- MS, Computer Science **Aug 2023 – Present**

- **GPA**: 4.00.

Oregon State / Santa Barbara City College -- Core Curriculum in Computer Science **Sept 2019 – May 2021**

- **GPA**: 3.94 / Comp. Sci 4.00.

UC Irvine -- PhD Track, Inorganic Chemistry **Sept 2011 – May 2012**

Hamline University -- BS, Chemistry **Sept 2007 – May 2011**

- **Awards**: American Institute of Chemists Award, Beggs, Carter, Mitsch, and Hamline Honors Scholarships.

SELECTED PROJECTS

Website for Photography Enthusiasts (javascript/node, mongodb, express, Heroku, HTML, CSS, ejs, leaflet maps, AWS S3, bootstrap, continuous deployment, CRUD, REST)

- Site features a stylistic portfolio generated for users with image galleries displaying details extracted from metadata including GPS location and camera settings. Includes interactive map displaying thumbnails of images at coordinates taken. Multi-parameter photo and user searches can be performed through the front end interface, or an internal API. Thumbnails of various sizes are generated for efficient page loading at time up upload. Images are stored on AWS S3. https://github.com/JREricson/photoAppV1

Personal Website (Django, python, postgres, AWS S3, Linode (Linux server), bootstrap, CSS, HTTPS, HTML, NGINX, Docker, Docker-Compose, Markdown)

- Portfolio page using SQL database with the ability to host other applications using reverse proxy. Automated updates made to AWS S3. Docker container based backend built to be reused for more complex future projects. HTTPS through Letsencrpt. Showcases code samples. https://www.jrericson.com/portfolio/projects

Wikipedia Scraping Pinned Map Creator(javascript/node, mongodb, express, Heroku, HTML, CSS, ejs, leaflet maps, bootstrap, continuous deployment, CRUD, REST)

- Site allows users to create lists of places by entering a name and the wikipedia url associated with the place. If the article has a GPS location associated with it, it will create a map with pins for each location. clicking the pin shows details for each area scraped. Users have multiple lists that can be viewed by logging into an authenticated session.

TECHNICAL ACUMEN & INTERESTS

- **Languages:** Python, Javascript, Typescript, SQL (Postgres). Strong exposure to C, C++, Java, and Bash.
- **Technologies:** Git, Linux fundamentals, Docker, Django, Node.js, testing frameworks (pytest, JUnit).
- **Frontend:** HTML, CSS, Bootstrap, dynamic scripts, React.
- **Interests:** Rock climbing, programming, photography, scientific inquiry, finding answers to interesting questions.