Lilly Percival

Software Engineer
illaisland.com

Software Engineer with a focus on full stack web development. Four years of enterprise and freelance experience. Passionate about all things STEM and improving equity in tech. Excited to find a role creating innovative and mission driven solutions.

Experience

Software Engineer — Tres Studios — Oct 2018 - Current

- Improved lead generation by 42% with improvements to company brand aesthetics and integration of enhanced site features for a multimillion dollar real estate investment company
- Impacted UN policy makers with 1 million social media impressions by creating a website showcasing a liability roadmap with case studies for a coalition of 14 climate change organizations
- Generated cost savings of over 400% by leveraging CMS solutions allowing clients to easily and independently synchronize their data, manage assets, and make regular site content updates
- Implemented modern and interactive site designs using technologies and frameworks such as GSAP/GreenSock, Three JS, WebGL, MongoDB, Node, Express, and React
- Provided clients the ability to gain essential business insights into customer conversion rates by introducing site analytics and tracking

Associate Software Engineer — Raise — Jun 2019 - Nov 2019

- Created views for DigitalOcean's 2019 Hacktoberfest site which saw over 310k visitors, 120k+ registrations, and 650+ global events using Bulma, SCSS, and Tilt JS
- Ensured accuracy of 120k+ user's profile pages by retrieving and persisting data for over 450k opened pull requests by leveraging github's API, GraphQL, Ruby, and Rails
- Reduced development time by open-sourcing project allowing core components of the 2019 HacktoberFest build to be reused for the 2020 HacktoberFest site
- Contributed functional and design changes to DigitalOcean's Community Question pages using Algolia and Contentful increasing successful search hit rates by 150% for similar questions
- Updated Raise website to ensure accurate profile data and consistent branding using Gatsby JS, Bulma, and React

Associate Software Engineer — SapientRazorfish — Jun 2018 - Aug 2018

- Restructured and implemented new designs for a legacy internal portfolio website using Docker, PHP, and WordPress
- Portfolio was shared company wide and used by roughly 1,000 employees to showcase past company projects to potential clients

Projects

Harvard Robotics Research Internship — Jun 2016 - Aug 2016

Wyss Institute | Bio-Inspired Robot Redesign

- Modeled, redesigned, constructed, programmed, and tested a bio-inspired climbing robot using technologies such as: SolidWorks, Versa Lasercutter, 3D Printing, electrical wiring and soldering, and C/C++ for Arduino microcontroller
- Robot was used for STEM outreach events at local Boston/Cambridge public schools, encouraging students to enter into STEM related fields

Harvard Research Experience for Undergrads — Jun 2015 - Aug 2015

Weitz Lab | Shearing of Soft Materials

- Tested an assortment of rotational cutting geometries and their effect on the shearing properties of soft materials using technologies such as: COMSOL, MATLab, a Rheometer, and basic lab equipment

Education

Full Stack Web Development	Resilient Coders | Certificate	2018
Mechanical Engineering	Bunker Hill Community College | No Degree	2017

Mentoring

Resilient Coders | #100Devs — Alumni Mentor — Jun 2018 - Current

- Mentored dozens of students over the past four years at Resilient Coders and #100Devs who went on to secure full time engineering roles and successful freelancing careers