Ryan Yan

EXPERIENCE

Sabbatical   Nov 2018 - Now
- Took the last few months off to learn how to make electronic music, study philosophy, and travel

BrickSimple, Philadelphia, PA   Jan 2018 – Oct 2018
Software Developer
- Enterprise-scale web app development of data visualization and administration site for an electronics parts manufacturer. Worked on creating features on the web app end-to-end, working on Django models and exposing API endpoints through Django REST Framework, and developing the interface on the client site, which was a Vue single-page application. Example: created machine tooling / parts locator which was used by factory workers to keep track of what add-ons each machine used.
- Worked on several features used to display graphs showing machine uptime and efficiency metrics. Improvements to one particular graphing module, which involved rewriting an inefficient data retrieval and munging process, decreased loading times for users accessing charts from >30s to <1s.
- Acted as team lead during deployment to a new instance in Japan. Troubleshooted and delegated tasks during release when we encountered several new issues causing a memory leak and site outage, allowing us to resolve the bugs for a timely release.

Silver Knights Enrichment, Fairfax, VA   Aug 2017 – Jan 2018
Coding Instructor
- Teaching primary school students fundamentals of programming by developing video games using the visual programming language Scratch

National Institute for Mathematical and Biological Synthesis, Knoxville, TN   Jun 2015 – Aug 2015
Professional Intern
- Formulating and implementing Markov chain models to generate projections of invasive species spread across the United States
- Summary and analysis of multi-million row high dimensional US DOT datasets in R, and collaborated in development of online data visualization tool for said models and datasets

EDUCATION

Recurse Center Programming Retreat, Recurse Center   Nov 2016 – Feb 2017
Participant
- Studied, pair-programmed, built, and taught a multitude of technical matter such as fundamentals of web development, how to deploy your first Python app, and algorithmic problem solving

College of William and Mary, Bachelor of Science, **GPA 3.78 / 4.00**   May 2016
- Relevant Courses: Data Structures, Algorithms, Discrete Structures in CS, Principles of Programming Languages, Computer Organization, Applied Statistics, Linear Algebra, Ordinary Differential Equations

Honors Thesis Computational and Applied Math, College of William and Mary   Aug 2015 – May 2016
Interdisciplinary Honors Student
- Mathematical and computational investigation into effects of network geometries and stochasticity on rapid spread of invasive populations

Github profile: https://github.com/apsicle