GRANT REED

grant.davis.reed@gmail.com GrantDReed.github.io

EXPERIENCE

Co-creator / Software Engineer

Ouroboros

In-browser, reflex-based p2p Snake game built with Node, React, Redux, and WebRTC

- Implemented a Conflict-free Replicated Data Type (CRDT) to ensure eventual consistency of game state across peers
- Devised predictive algorithms to improve user experience
- Optimized collision checking and display rendering
- Implemented data buffers to ensure accurate winner determination and smooth end-of-game transition for all peers
- Achieved lowest possible latency via a full-mesh network topology
- One of two engineers on project
- Website: https://ouroboros-game.herokuapp.com/about

Personal projects

- Reaction: A Trello-like project management tool
 - Rails + Webpack + React/Redux + Heroku (https://reaction-trello-clone.herokuapp.com)
- postit: Reddit-like blog app
 - Rails + JQuery + SASS (https://github.com/GrantDReed/postit)
- TodosTracker: Clean and simple task management tool
 - Sinatra + Postgres + Sequel ORM (https://github.com/GrantDReed/todos-tracker-sequel)

EDUCATION

Davis. CA

University of California

2011 - 2014

B.S. in Evolution, Ecology, and Biodiversity

Launch School

2016 - 2018

• Full-stack web development curriculum

SKILLS

- Javascript, Ruby, PHP, Python, SQL, HTML, CSS
- React, Redux, Node, Ruby-on-Rails, jQuery, Git/Github, WebRTC, CSS preprocessors
- Data structures and algorithms, distributed systems, schema design, OOP, REST

PREVIOUS EMPLOYMENT

Lab Technician II Seed Health Lab

California Seed and Plant Labs

August 2014 - August 2015

• Increased processing volume by repurposing unused office space, carried out QA experiments, improved workflow via new filing system, and promoted to Lab Technician II after 3 months.

Lead Field Technician

University of Toronto Mississauga

May 2013 - August 2014

McCauley Lab

• Built temperature-controlled aquaculture tanks, and promoted to Lead Technician after first season