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PROJECTS

Optimize | [Live](#) | [Github](#) Feb 2016 – present

- Uses charts and a category system to allow users to find, visualize, and post quicker ways to do repetitive tasks
- Built as a single-page asynchronous app using Ruby on Rails and React with a SQL database

Microorganism Munch | [Live](#) | [Github](#) March 2016 – present

- A web app game that includes predator and prey AI written in pure JavaScript using basic vector math
- Prey AI allows schooling movement pattern and warning of predators
- Built using Express with a React and Material-UI frontend

Terminal Chess Game | [Github](#) Jan 2016 – present

- Two player terminal chess game written in ruby that enforces game rules
- Utilizes object oriented programing and class inheritance to keep game logic DRY and maintainable

SKILLS

JavaScript Node Express React jQuery Ruby Rails SQL MongoDB HTML CSS Python MATLAB git

EDUCATION

App Academy *San Francisco, CA* Jan – March 2016

- Full stack, 80 hours a week web development course with a less than 5% acceptance rate

Duke University *Durham, NC* Aug 2012 – May 2015

- Three years of biomedical engineering courses
- Curriculum Highlights – Computational Methods in Engineering, Fundamentals of Computational and Electrical Engineering, Linear Algebra, Differential Equations, Computational Genomics

EXPERIENCE

App Academy - Part Time Teaching Assistant March - present

- Help students with coding problems as they work through App Academy's JumpStart ruby curriculum

Gersbach Lab - Undergraduate Researcher May 2013 - Aug 2015

- Collaborated with another lab which led to a co-authorship in a published research [article](#)
- Developed new experimental methods including an optimized protein concentration and purification process which allowed collaborators to do higher throughput experiments
- One of twenty students in my engineering class selected as a National Academy of Engineering Grand Scholar which provided funding and mentorship to complete and present a proposed research project and also received a Pratt Research Fellowship and Genome Science Fellowship to work in lab during the summers at Duke

Duke - Resident Assistant (RA) July 2014 – May 2015

- Organized a successful petition to have a ping pong table placed in common area