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# Josh McMenemy

[LinkedIn](#)  
[Github](#)

## PROJECTS

- Optimzye** | [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
- 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