James Anderson

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EDUCATION

- **NYU, Courant Institute of Mathematical Sciences** — New York, NY
  BA, Computer Science and Mathematics — *Sept. 2017 – May. 2021*
  Relevant Coursework: Data Structures, Discrete Math, Computer Systems Organization, Basic Algorithms, OS

EXPERIENCE

- **Google CodeU** — Mountain View, CA
  Participant — *Summer 2017*
  - **Chat**: Added to an existing Java chat server/client. In a team consisting of 2 other participants and a Google engineer, designed and implemented versioning, state saving, subscriptions, and access levels.

- **UCLA, Elegant Mind Laboratory** — Los Angeles, CA
  Researcher — *Summer 2016*
  - **Neuron Mapping**: Developed MATLAB software to identify and chart the activity of the neurons of the C. Elegans worm in 2D & 3D.
  - **Preprocessing**: Implemented multiprocessing and other techniques to save up to an hour of time preprocessing images in the lab. Also automated it (until then it required preprocessing by hand).
  - **KJ Algorithm**: Responsible for the KJ algorithm, named after another researcher and myself.

- **Tesorio** — Palo Alto, CA
  Software Engineering Intern — *Summer 2015*
  - **API**: Built the Python/Django internal API from the ground up.
  - **Dashboard**: Converted the dashboard front end architecture to React.js components. Some visualization development with Google Charts.
  - **Mailer & Backend**: Development of the Python mailing system and backend.

- **Planet Argon** — Portland, OR
  Software Engineering Intern — *Summer 2013*
  - **Github Dashboard**: Developed internal tool to track Github contributions (helpful to non-technical roles). Built with Ruby on Rails, implementing the Github API. Practiced Test Driven Development.
  - **Hydra**: Developed internal tool in Ruby on Rails. Practiced Test Driven Development. Used d3.js.

PROJECTS

- **Homebrew-Bundle**: Rewrote the Ruby Domain Specific Language. Added support for homebrew-cask library. Since then, the project has been added to the main Homebrew github, and I was named as a contributor.
- **Haystack**: Using MongoDB and Go, built API for processing payments, authenticating users, searching for listings by location and keyword. In addition, built an Objective-C iOS application to interact with the Go backend API. Unfortunately, no longer works with the termination of the Balance payment API, but I have plans to continue work on it.
- **Concise**: Implemented a programming languge written in Ruby, compiled on the Rubinius VM. WIP.

AWARDS

- **HSHacks Hackathon**: Won 2nd Place for an application called Tsh, implemented in Rails. Tsh allowed access to information like the weather, Facebook, etc all via SMS instead of a data plan. Implemented the Twilio and Facebook API (among others).
- **FTC (FIRST) Robotics**: Won Judge's Trophy. Acted as lead programmer.