

# Peter Fonseca

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- Projects**
- Glia** · [github](#) · [live](#) ( Ruby, Rails, JSX, PostgreSQL )  
*Online support group for caregivers of dementia patients*
- Minimized data requests with nested Flux resources to reduce load time
  - Leveraged 3rd party libraries to offer modern text-formatting experience, complete with drag-and-drop image uploading
  - Incorporated responsive design for mobile users
- Jarvs** · [github](#) · [launchpad](#) ( Python, SQLite, Bash )  
*Ubuntu Application for managing dictations in large-scale clinical research.*
- Distributed via Ubuntu PPA to increase accessibility for non-technical users
  - Delegated intensive file computations to Bash, optimizing for small cloud instances
- Color Shift** · [github](#) · [live](#) ( JS )  
*JavaScript canvas game*
- Simulated collision and drag physics with vector computations
  - Modified DOM with game state logic for start/end gating
- Ruby Chess** · [github](#) ( Ruby )  
*Terminal chess with computer player*
- Built computer player that will intelligently pick moves
  - Unit and integration tested with RSpec
- Skills** Ruby, Ruby on Rails, Python, SQL, JavaScript, jQuery, React.js, Flux, Bash, Git, HTML, CSS, MATLAB, RSpec, linux, SSH, graphic design, project management

- Experience**
- Clinical Research Coordinator** · 2014 - 2016 · [UCSF Memory and Aging Center](#)
- Expanded scope of data requests and presentations using scientific Python, initiating new policies to improve data quality and reduce errors
  - Accelerated dictation approval bottleneck by building [Jarvs](#)
  - Automated administrative tasks and improved scalability of recruitment
  - Coordinated a team to compile a \$5M competitive grant renewal application
  - Conducted cognitive tests and ran MRIs
- Undergraduate Researcher** · 2013 - 2014 · [UCSC Kellogg Lab](#)
- Discredited a hypothesized step of the enzymatic pathway for nutrient-mediated cell size control in *S. cerevisiae*
- Technician** · 2010 - 2012 Summers · [Vintage 47 Amplifiers](#)
- Doubled fabrication rate of amplifiers from schematics and designed logos/components with Adobe Illustrator to grow the brand

**Education** [App Academy](#) · May - July 2016 · San Francisco, CA  
*Industry-focused programming course*

**BS in Biology** · 2010 - 2014 · University of California, Santa Cruz  
*3.75 overall GPA, 3.8 Science GPA · Minor in Chemistry*