

Dickson Lau

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SKILLS/INTERESTS

- **Languages:** Ruby, JavaScript, Haml / HTML / CSS, MATLAB, Python, C++
 - **Databases:** PostgreSQL
 - **Software/Tools:** Rails, Git, Foundation, RSpec, Capybara, Adobe Photoshop,
 - **Other Skills/Interests:** Photography, Electronics, 3D printing / CNC, Code for Boston
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PROJECTS

flix // chill: flix-chill.herokuapp.com

- Created an app which allows users to connect to other users based on similar TV shows that they've watched using omdb API
- Rails/PostgreSQL/Foundation/SCSS/Haml/JQuery

Elevader: elevader.herokuapp.com

- A yelp-like website where users can review elevators of Boston
- Rails/MailCatcher/SCSS/Kaminari/Devise/JQuery

Great Chow: github.com/tsdlau/greatchow

- Website for Great Chow restaurant located in Abington, MA and Quincy Wollaston, MA
 - Rails/PostgreSQL/SCSS/Haml/JQuery
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WORK EXPERIENCE

Jr Full Stack Developer – Launch Academy – Boston, MA

Feb 2016 – May 2016

- Built various small web applications with full stack Rails
- Collaborated with 40 other apprentices during a 10 week coding experience
- Employed modern day paradigms: AGILE development, MVC design, test-driven development, and pair programming

Research Engineer - Cambrian Innovation – South Boston, MA

May 2015 – Dec 2015

- Designed, constructed, and tested prototype designs for a phase II project before approval for manufacturing design
- Built and tested MPPC circuits under lead electronics engineer
- Researched microbial fuel cells (MFC) and its applications to treating wastewater

Student Researcher – BU Biomedical Optics Lab – Boston, MA

Sept 2013 – May 2014

- Experimented and tested methods that will recognize cancerous cells in a high-throughput manner
- Designed system to measure the light scattering off of cells
- Drafted many prototype designs using SolidWorks during preliminary phase
- Produced many in-house components of final product, effectively staying under budget

Research Assistant – BU School of Medicine, Bryant Lab – Boston, MA

May 2013 – Sept 2013

- Researched the genetic basis of behavioral and molecular traits of addiction in mice
 - Created programming scripts to automate aspects of data acquisition
 - Performed wet lab tasks, provided overall support for researchers
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EDUCATION

Boston University College of Engineering – Boston, MA

Sept 2010 – May 2014

Bachelor of Science in Biomedical Engineering, Concentration in Nanotechnology