Soon Jae Kwon

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www.soonjaekwon.com
www.github.com/kwonsjay
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Education

- **University of Pennsylvania, School of Engineering and Applied Science (SEAS)**   **Philadelphia, PA**
  Master of Biotechnology   *Fall 2014 - Present*

- **University of Pennsylvania, School of Engineering and Applied Science (SEAS)**   **Philadelphia, PA**
  Bachelor of Science in Engineering (BSE) in Bioengineering   *Fall 2009 - Spring 2013*

  – Coursework: Soft Materials, Medical Devices, Medical Imaging, Nanotechnology, Physical Chemistry, Molecular Biology, Clinical Applications, Engineering Finance, Corrosion Mechanics, Computer Science

Technical Skills

Programming: Matlab, Python, Ruby on Rails, Javascript, HTML/CSS, BackboneJS, AngularJS, SQL, Arduino
Languages: Fluent in English and Korean, Proficient in Japanese, and Conversational in Spanish

Experience

- **INTERZ**   **Seoul, South Korea**
  Digital Content Translator   *Winter 2013 - Summer 2014*
  – Translated Korean documentaries and TV programs to English for KBS World

- **Tung Kay Fun Laboratory**   **University of Pennsylvania, PA**
  Product Designer, Bioengineer   *Fall 2012 - Spring 2013*
  – Designed and programmed Arduino-based device to assist children with Cerebral Palsy (CP) to operate standard point-and-shoot cameras.
  – Developed Arduino-based automated pill dispensing system

- **Molecular & Computational Genomics Laboratory**   **Samsung & SKK University, Korea**
  Bioinformatics Intern   *Summer 2012*
  – Programmed Python script using the Biopython toolset to locate all instances and close variants of user-specified 7-mer DNA sequence match sites in the human genome

- **Department of Neurosurgery**   **Pennsylvania Hopsital, PA**
  Preceptee, Optimization/Systems Engineer   *Spring Semester 2011*
  – Scripted a Matlab algorithm to indicate correct placement of surgical electrodes in the subthalamic nucleus of the brain for Deep Brain Stimulation (DBS) surgery using patient data.

- **Laboratory for Nanostructured Biointerfaces**   **KAIST University, Korea**
  Fabrication Intern   *Summer 2010*
  – Participated in in-vitro synthesis and testing of polymer-dsRNA complexes

Projects

- **Troll Poll - www.trollpoll.me**   **San Francisco, CA**
  Clone of Poll Everywhere's live audience polling feature   *Fall 2013*
  – Used Backbone.js and Rails RESTful API for a feature-rich, single-page application
  – Implemented Twilio and Pusher API for instant data reload upon receiving sms
  – Incorporated bootstrapping and AJAX queries to reduce HTTP requests
  – Customized model data sent by server by overwriting default as_json in Rails

- **Personal Portfolio - www.soonjaekwon.com**   **San Francisco, CA**
  Portfolio site with custom HTML/CSS and graphic design   *Fall 2013*
  – Custom templating and CSS styling without using popular frameworks
  – Custom designed logos and graphics using Photoshop and Illustrator

- **BOW Alumni - bowalumni.herokuapp.com**   **San Francisco, CA**
  A simple web app for members of Duke's BOW alumni to keep in touch   *Winter 2013*
  – Used Bootstrap(by Twitter), Backbone.js, and Rails backend
  – Implemented Google Maps API to display member locations
  – Manually added CSRF tokens to certain validation requests to work with Devise