
XIAOYU A. GAO

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Education

The University of Virginia: School of Engineering and Applied Science (SEAS)

August 2016

- Computer Engineering & Electrical Engineering
 - Rodman Scholar (Honors Program for Top 5% of Engineers)
 - 3.07/4.0 Cumulative GPA
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Skills

Languages:

- JavaScript (ES5/ES6), Shell (Bash), Java, C/C++

Operating Systems:

- Unix/Linux (Ubuntu 12.04+), Mac OS X (10.10+)

Development Tools:

- Git, Emacs, Atom, Eclipse, Webpack, NPM, cURL, Postman, RoboMongo

Front-End Web Technologies:

- HTML5, CSS3, React, JQuery, AngularJS 1, Sass, Bootstrap

Back-End Web Technologies:

- Node.js, Express.js, Spring, MySQL, MongoDB

Server Technologies:

- Nginx, Apache2, AWS (EC2/S3)
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Work Experience

Capital One - *Technology Development Intern*

June 2015 - August 2015

- Developed a sprint tracking web application that aggregates data from various tools such as VersionOne, Git/SVN, Hudson/Jenkin and SonarCubed in an user-friendly and responsive dashboard interface.
- Aided in the design of the UX/UI and implemented front-end logic to display data to users as well as validate inputs using AngularJS, JQuery, SASS and custom CSS.
- Developed RESTful APIs to allow communication between front-end and back-end using Spring Core.
- Deployed application to an internally accessible AWS server

Booz Allen Hamilton - *Research Assistant Intern*

May 2014 - August 2014

- Developed an email filtration IDS web application for detecting malicious email content.
 - Application performed full packet capture of SMTP traffic and static analysis of email pcaps and links using Bro-IDS & MASTIFF
 - Designed front-end interface using JQuery and Bootstrap and developed the back-end with Flask and SQLAlchemy.
 - Application used to collect metrics on email traffic to improve incident response time for internal cyber security team.
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Select Projects

Personal Portfolio Site (iknowhtml.github.io)

- Portfolio website to showcase technical skills and personal achievements.
- Usage of vanilla Javascript for front-end interface.
- Deployed on Github pages.

Media Center Web Application (*In Progress*)

- Media center application to organize home movie library.
- Written in React and vanilla Javascript.
- Hosted on local server using Node.js.
- Media metadata stored in local MongoDB.

Resume (github.com/iknowhtml/resume)

- Alternative resume format to demonstrate proficiency in responsive design and to allow easy integration into personal site.
- Written entirely in HTML and SCSS.
- Fully responsive for all devices and screen-sizes.

Perish (github.com/project-perish)

- RESTful API-based solution for temporary and anonymous file storage.
- Leverages Ruby on Rails to create an API service and PostgreSQL for the back-end database to store file meta data.
- Files are hashed using SHA256 to insure file integrity and the digest is used as an unique ID for the download URL.
- File are also encrypted using AES256 and stored on Amazon S3.
- Winner of the First API | Summer Jam Hackathon.