

# XIAOYU A. GAO

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## Profile

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I am a full stack and freelance developer skilled with modern web application development technologies from Cloud-based system architecture and dynamically and statically-typed web frameworks for the back-end and middleware, to designing advanced and responsive UI/UX using HTML-based front-end frameworks. Focused in developing innovative mobile-first products with agile methodology principles.

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## Education

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

May 2016

- Computer Engineering & Electrical Engineering
  - Rodman Scholar (Honors Program for Top 5% of Engineers)
  - 3.45/4.0 Cumulative GPA
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## Technical Skills

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### Languages:

- Python, Java, PHP, C/C++, HTML, CSS, JavaScript, Shell (Bash), Assembly (x86)

### Operating Systems:

- Unix/Linux (Ubuntu 12.04+), Mac OS X (10.10+), Windows (XP/Vista/7/8/10)

### Development Tools:

- Git, Emacs, Sublime, Eclipse, Maven, Hudson/Jenkins

### Front-End Web Technologies:

- AngularJS, JQuery, Ajax, Sass, Compass, Bootstrap, Materialize, Postman

### Back-End Web Technologies:

- Spring MVC, Flask, Django, MySQL (PHPMyAdmin), MongoDB (Robomongo)

### Server Technologies:

- Cloud Hosting (AWS/Digital Ocean), Apache2, WSGI
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## Professional Experience

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**Technology Development Intern**

June 2015 – August 2015

**Capital One**

- 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 using AngularJS, JQuery, SASS and custom CSS.
- Developed RESTful APIs to allow communication between front-end and back-end using Spring Core and MVC.
- Deployed application to AWS and integrated with Jenkins to allow CI/CD.

**Web Development Intern**

May 2014 – August 2014

**Booz Allen Hamilton**

- 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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## Projects

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**Personal Portfolio Site ([www.iknowht.ml](http://www.iknowht.ml))**

- Portfolio website to showcase technical skills and personal achievements.
- Usage of custom CSS and Angular code for front-end interface.
- Back-end logic and routing implemented utilizing Flask.
- Deployed to Digital Ocean using Apache2 and custom WSGI configurations.

**Fraternity Site ([www.virginia.lambdaphiepsilon.com](http://www.virginia.lambdaphiepsilon.com))**

- Informational website for Lambda Phi Epsilon, Alpha Tau Chapter at the University of Virginia.
- Manages content of the site as well as back-end database for storing news posts.
- Developed dashboard interface to simplify content management of news.
- Responsive web experience across desktop, tablet and mobile devices using the Materialize framework.