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# XIAOYU A. GAO

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## Profile

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I am a Full Stack Javascript Developer with a passion for technology and innovation. My experience and expertise ranges from designing and implementing responsive and user-friendly UX/UIs to architecting and developing modular, scalable and fault-tolerant back end infrastructures and devops pipelines using Agile development methodologies. In particular, I specialize in technologies such as React/Redux, Nodejs/Express, Webpack, Docker, Terraform, Jenkins and AWS.

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## Education

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**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)
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## Skills

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### Languages:

- JavaScript (ES5/ES6/ES7), Shell (Bash), Java, C/C++

### UX/UI and Front End Web Technologies:

- Sketch, HTML5, CSS3, React, Redux, Webpack

### Devops Tools:

- Travis, CircleCI, Jenkins, Terraform, Packer

### Development and Testing Tools:

- Agile (Scrum), Git, Mocha, Chai, ESLint, NPM, Yarn

### Back-End Web and Database Technologies:

- Nodejs, Express, MySQL, MongoDB

### Infrastructure Technologies and Cloud Services:

- Docker (Compose/Swarm/Cluster), AWS, Azure
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## Work Experience

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**Booz Allen Hamilton - *Technologist***

May 2017 - Present

- Developed a proof of concept Blockchain application for the U.S. Treasury to replace existing payment infrastructure.
- Front end built with React, Redux, React Router, Redux Form and styled with Spectre.css and custom CSS as a static SPA.
- Back end written in Node.js, and data is persisted on Azure CosmosDB as a MongoDB Database, as well as on the Microsoft's private Ethereum Blockchain.
- Smart contracts written in Solidity with Truffle and deployed to Microsoft's Blockchain network.
- Infrastructure provisioned with Terraform, and front end and back end build and deployment automated with Jenkins.
- SPA and API deployed on Azure Blob Storage and Web Apps respectively, and Geth nodes hosted on Microsoft's Blockchain as a Service.
- Front end files stored in Blob storage proxied with Azure Function App Service to allow accessing static files as website URL.
- Architected the front end, back end and deployment pipeline, as well as the cloud infrastructure for the project.
- Led development efforts across the stack, including the UX/UI design, front end, back end and devops, in a small team of developers in an Agile environment using Kanban.
- Acted as defacto Product Owner and Scrum Master to translate requirements from the stakeholder, and to convert requirements into tasks to be distributed among team members.

**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 and 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.