

## Davis Ford

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**Booz Allen Hamilton, Inc.** – *Management Consulting Firm, Washington, DC*  
*Lead Engineer – Associate [2016-Present]*

At Booz Allen Hamilton, I have been primarily involved in the delivery of the CMS TCPI project. The project consists of data aggregation from hundreds of thousands of clinicians around the U.S. During the multiple years I've worked on TCPI, I have delivered eleven major software projects to our client (CMS). These applications were used to track medical trends in major practice transformation networks across the country.

Over the course of this project, I have worked on every part of our stack. Some of the technologies I typically use day to day at TCPI are React/Electron/TypeScript, Javascript/Node.js, Python/Django, Postgres, and various AWS services (I have all 9 AWS certifications). I currently prefer a strongly-typed Javascript experience using TypeScript, and I am a strong advocate for Electron. My latest API involved collecting secure PII from clinicians - it received 1.4 million hits in production within the first month of use.

I have written proposals ranging from clients such as the U.S. Navy, USMC, and Air Force. My full stack experience, coupled with my cloud capabilities, allow me to contribute to projects in an ongoing basis, whether in a development or ops role.

The TCPI Project has garnered praise from CMS and all of our affiliated clients - we have increased our funding each option year, ending up at \$21M/4yrs. I was honored with Booz Allen's "Collective Ingenuity" award after a particularly momentous effort over summer 2017. I was honored again with two more "Collective Ingenuity" awards in 2018. As an AWS Solutions Architect Professional, I participated in having Booz Allen added to the Amazon AWS Well Architected Review Partner program in January 2019.

**William J. McCarthy & Associates** – *Digital Marketing Firm, Alexandria, VA*  
*Lead Web Developer [2014-2016]*

- Developed my own email template generation and mass email scheduling web application ([RealSimpleEmail.com](http://RealSimpleEmail.com)) using Javascript, jQuery, PHP, and MySQL, and third party API's.
  - o Since going live, it has saved thousands of hours of work in small agency.
  - o Integrated with multiple third party API's for one-click publishing
  - o Just watch the demo! It's a great little tool. I've pushed billions of emails through my system, and it's incredibly easy to use.
  - o I sold this platform to the Tea Party, pre-Trump election, for their presidential campaign emails. I'm not saying my tool is responsible, but... you do the math.
- Maintained 17 websites with traffic of 350,000/month, resulting in a traffic increase of over 60% since joining the company.
- Introduced company wide A/B testing to measure digital campaign success rates.
- Oversaw technical aspects of a merger in which the company acquired an additional 800,000 email subscribers.

## Independent Software Development

*Freelancer [2012-Present]*

My website usually has the most up to date version of my projects, which you can find here: <http://daviseford.com/blog/pages/projects.html>

My latest project is the creation of a cryptocurrency arbitrage trading bot. You can find a public, free demo of the trade-finding logic here: <http://daviseford.com/bitcoin-arbitrage/>. My private codebase executes trades on Bittrex and Cryptopia, and is profitable in stable market conditions. This project makes heavy use of Node, TypeScript, Big.js (math library), and a lot of API's.

Bored? Play [http://daviseford.com/consultant\\_simulator/](http://daviseford.com/consultant_simulator/) - created with React/Phaser.

I was retained by Cellcion, LLC in 2016 to improve the front-end of their automated flow cytometry bioinformatics software using R and Shiny.

Since leaving WJMA, I have been retained as a consultant for all of their programming needs. They still use the software I created - [RealSimpleEmail.com](http://RealSimpleEmail.com) - to manage their emails. Over 3.5 billion emails sent so far.

I am co-founder and developer for Bonsai Electronics (<http://360bonsai.com/>). My software has been used by National Geographic, Sony, and the Blue Man Group.

**ECPI College of Technology**, Manassas, VA

*Bachelor's Degree, I.T. Management [2013]*

**Bridgewater College**, Bridgewater, VA

*Political Science [2007]*

### Resources:

Personal Website - [daviseford.com/](http://daviseford.com/)

GitHub - [github.com/daviseford](https://github.com/daviseford)

### Languages/Technologies

Javascript, jQuery, React, Redux  
ES6/ES7, Node.js  
Mocha/Jasmine/Jest  
TypeScript, Electron  
WebPack, Babel, NPM  
HTML, CSS, SCSS, Bootstrap  
LAMP Stack, PHP, R, Shiny  
Python, Django  
Postgres, MySQL  
Bash, CMD, serverless-framework  
Docker, AWS, RDS, DynamoDB

### Certifications

AWS Solutions Architect Professional (2018)  
AWS DevOps Engineer - Professional (2018)  
AWS Advanced Networking - Specialty (2019)  
AWS Big Data - Specialty (2018)  
AWS Security - Specialty (2018)  
AWS SysOps Administrator (2018)  
AWS Certified Developer (2018)  
AWS Solutions Architect Associate (2017)  
AWS Cloud Practitioner (2018)  
CSA Certified Scrum Master (2017)  
CompTIA A+, Network+, Security+ (2014)