

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 TCPI project. TCPI will transform patient care for over 140,000 clinicians across the nation, and is projected to save the federal government up to \$4 billion over the course of its lifespan.

During the multiple years I've worked on the TCPI, I have helped deliver eight major software projects to our client (CMS). These applications were used to track medical trends in major practice transformation networks across the country. I have been a major part of every software project on TCPI, and have learned a great deal from watching the project's ecosystem grow.

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 am a certified AWS Solutions Architect and SysOps Administrator). I currently prefer a strongly-typed Javascript experience due to writing 25k+ lines of untyped Node code.

The TCPI Project has garnered praise from CMS and all of our affiliated clients - going into our second option year, we were able to increase our annual funding by \$3.2M, bringing our budget to \$5.85M. In our first option year, we were granted a \$1.89M bonus for our delivery of multiple high quality products. I was honored with Booz Allen's "Collective Ingenuity" award after a particularly momentous effort over summer 2017. I was doubly honored with another "Collective Ingenuity" award in May 2018 for my efforts on our latest React/Electron app delivery.

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) 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://davisford.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://davisford.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://davisford.com/consultant_simulator/ - created with React/Phaser.

I hold the dubious honor of having dozens of articles written about my Trash Talk Generator: most notably Kotaku's "Player Creates Crowd-Sourced Trash Talk Generator For Steam Games." I'm very proud of this project for the hilarity aspect.

I was retained by Cellcion, LLC (cellcion.com/) in 2016 to improve the front-end of their automated flow cytometry bioinformatics software. I worked with the R language and Shiny for this contract.

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 - to manage their emails. Over 3.5 billion emails sent so far.

I am founder, part-owner, and developer for Bonsai Electronics (<http://360bonsai.com/>). It's an Electron/React/Node-powered file sorter that helps videographers easily manage the vast volumes of data that result from a day of shooting 360-degree video. This 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]

Additional Personal Development & Training:

Pursuing Solidity (Ethereum programming language) development via Udemy courses.
Successfully engineered and programmed working LED hula hoop in C++
Developed and built an "Infinity Table" using Arduino and addressable LED's.

Languages/Technologies

Bash, CMD, C++, Java
Javascript, jQuery, React, Redux, ES2015/2016
Node.js, Mocha/Jasmine/Jest
Electron, WebPack, Babel, NPM
HTML, CSS, SCSS, Bootstrap
Drupal, Wordpress, LAMP Stack
Python, Pandas, NumPy, Django
Postgres and MySQL
PHP, R and Shiny
serverless-framework
Docker, AWS

Other Skills/Qualifications

Personal Website - davisford.com/
GitHub - github.com/davisford

Certifications:

AWS SysOps Administrator (2018)
AWS Certified Developer (2018)
AWS Security Specialty (2018)
AWS Certified Solutions Architect (2017)
CSA Certified Scrum Master (2017)
CompTIA A+, Network+, Security+ (2014)