

Alvin Cox

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[Linkedin](#) | [GitHub Profile](#) | [Portfolio](#)

PROFESSIONAL SUMMARY

Full Stack Web Developer with a background in physics and mathematics. Experience with automation systems and logic based systems. Excellent interpersonal communication skills and collaborator who works well on team-based projects as well as independently. Recognized for proven complex problem solving abilities to contribute effectively as a part of a fast-paced, quality-driven team.

TECHNICAL SKILLS

Node.js, Express, JavaScript, jQuery, GIT, GitHub, Express, MongoDB, MySQL, Mongoose, Handlebars, HTML5, CSS3, Bootstrap, APIs, Heroku, Terminal, AJAX, Restful API, ES6, JSON, Sequelize

RELEVANT EXPERIENCE | PROJECTS

Procasti-dater | Front-End Developer | Deployed Link: <https://purilisa.github.io/Dinner-And-A-Movie/>

| Github Link: github.com/purilisa/Dinner-And-A-Movie

An App that finds local restaurants and events / activities to quickly set up a date.

- **Role:** Use jQuery AJAX method to make server side requests for restaurants and events and append the results to a map that shows the user's current location or a location of the user's choice. Created using HTML and styled with CSS. Integrated Google Geocode, Google Maps, Google Maps Places, & Ticketmaster API's and manipulated the DOM with JavaScript by leveraging the DOM API
- **Utilized:** HTML5, CSS, JavaScript, jQuery, HTTP GET Requests, & Server-side API's

Violin Central | Full Stack Developer | Deployed Link: <https://violin-central.herokuapp.com/>

| Github Link: github.com/justinwilliamsrva/Violin-Central

Application for violin instructors to create lesson plans to teach to their students

- **Role:** Query MySQL database for instructional exercises from popular violin instructional textbooks Exercises can be searched by various criteria such as position, bowing, or key. Select and save any number of exercises into a lesson plan for use in teaching. Search saved lesson plans and view each exercise that a lesson plan contains. Created using MySQL database along with Sequelize and Sequelize Fixtures. Handlebars is used to help render the HTML.
- **Utilized:** HTML5, CSS, JavaScript, jQuery, MySQL, Sequelize, Sequelize Fixtures, Express, Handlebars

Work-Day Scheduler | Full Stack Developer | Deployed Link: alvinzc4.github.io/Work-Day-Scheduler/

| Github Link: github.com/AlvinZC4/Work-Day-Scheduler

An application for scheduling events on each hour during the work day.

- **Role:** Use jQuery to create a dynamically updated work day schedule that breaks the work day down by hour and store user created events. Created using HTML and styled with CSS. Makes use of Moment.js to dynamically update the appearance of the calendar and show the current time and date. Local Storage is utilized to retain data entered by the user.
- **Utilized:** HTML5, CSS, JavaScript, jQuery, Local Storage, & Moment.js

PROFESSIONAL EXPERIENCE

Gavin Pharmaceutical Services; Petersburg, VA

July/2018 - Present

Validation Engineer

Validate automation systems at an A.P.I. manufacturing facility, ensuring GMP requirements are met in order to ensure reliability and repeatability in the manufacturing of Active Pharmaceutical Ingredients. Reverse engineer automation/electrical systems in order to properly understand functionality for validation purposes, perform field reviews on automation/electrical hardware to ensure proper installation, and field review software components of automation systems to ensure proper installation, version control, security parameters, and functionality. Properly document results of tests and field reviews following Good Documentation Practices.

Accomplishments:

- Completed 6 large scale projects validating automation systems used for pharmaceutical manufacturing under tight deadlines.
- Successfully trained and managed 2 interns for a large scale project validating automation systems used for pharmaceutical manufacturing .

First Energy Corporation; Richmond, VA

July/2013 - July/2018

Terminal Operator

Managed and maintained inventory of millions of dollars worth diesel fuels on site, this included receiving fuel via pipeline from a local pumping station and properly timing the opening and closing of valves to ensure the fuel was pumped into the proper tanks and did not mix with other fuels. Took monthly water and fuel samples to ensure compliance with the EPA and that the fuel met required standards for sale and use. Also trained truck drivers how to properly use equipment on site to load their trailers.

Accomplishments:

- Trained hundreds of truck drivers on how to properly use site equipment to safely and effectively load their trailer with diesel fuels.
- Devised a method to determine how much fuel was placed in each fuel tank during a semi-routine pipeline transfer involving Kerosene. This resulted in much more accurate numbers for the inventory when the Kerosene was received from the pipeline.

EDUCATION

Full Stack Web Development Certificate - University of Richmond; Richmond, VA | 2020

A 24-week intensive boot camp program focused on gaining technical programming and market-driven skills.

Bachelor of Science in Physics (Minors in Mathematics and Astrophysics) - Randolph-Macon College;
Ashland, VA

Associate of Applied Science in Mechanical Engineering Technology - John Tyler Community College;
Chester, VA