**JAMES J WINKLE**

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**Technical Skillset**

Full Stack web development, HTML5, CSS, Javascript, jQuery, HTML canvas, C, Bootstrap, AJAX, APIs, Microsoft Office, advanced MS Excel (ANOVAs, post hoc analysis), node.js, npm packages, D3.js firebase, git, version control, responsive design, moment.js, firebase, responsivevoice.js, d3.js frameworks, node express servers, MySQL, sequelize, handlebars, MVC paradigm, inquirer, react, Mongoose, MongoDB, C#, socket.io

**Professional Experience**

UNC Charlotte AUG 2017 - PRESENT

**Minerva Chess https://minervachess.herokuapp.com**

* + *application run over an express server that functions as an online multiplayer chess site, as well as a fully functioning chess engine; uses HTML5, bootstrap, moment.js, socket.io, CSS, jQuery, javascript, mysql*
  + *uses ‘password-hash-and-salt’, ‘express-session-validator’, ‘sequelize’ node packages to allow individual user account creation and secure storage of encrypted user data*
  + *socket.io, api routes, and a profanity filter are used in the in-game chat functionality*
  + *chess.js and chessboard.js libraries were used and modified to validate legal chess moves*
  + *my engine was built to play against a human player; at its core it uses the alpha-beta search algorithm to search thousands of positions per second, as well as my custom heuristics to play the best move*

**My-Match https://mymatchjjw.herokuapp.com**

* + *dating match application run over an express server*
  + *users answer a brief survey and their results are run through my search algorithm to find potential dating matches*
  + *logic is run on both the client side and server side and information is passed through different ajax POST and GET calls*
  + *employs bootstrap, jQuery, CSS, HTML5, module exports, javascript*

**Road Trip Application https://roadtrip-group1.herokuapp.com**

* + *collaborated with a group of four and made a mobile responsive application that employs different APIs to create a custom playlist for the user, and calculates the best route to their destination*
  + *user enter an artist and destination; the application uses our algorithm to search related artists and top tracks and returns a playlist which will play for the duration of their trip*
  + *jQuery, Google map and Spotify API, Bootstrap, Moment.js, javascript, jQuery, git version control*

**Bamazon https://github.com/jwin4740/bamazonjjw**

* + *a command line application that gives users the opportunity to shop for a variety of products and add them to their accounts using inquirer.js, mysql workbench, moment.js, chalk and table packages*
  + *users create an account that starts with a predefined balance, which is stored in mysql database*
  + *users can browse and fill a shopping cart from categories like music, movies, books, Hamilton tickets, electronics, power equipment*
  + *after their purchase their data is updated in different mysql tables*
  + *features an admin mode that requires a special login to access all customer transactions as well data such as net department sales, net sales, and inventory adjustments*

**Cipher https://github.com/jwin4740/cipher**

* + *a program written in both C and javascript allows users to type in words or phrases and get back and get them back encrypted*
  + *1) Caesar cipher shifts each character to the right depending on a numeric key 2) Vigenere cipher shifts each character variably depending on an alphanumeric phrase given by user*
  + *uses C, javascript, jQuery, HTML, CSS, Caesar cipher, Vigenere cipher*

**Education**

* Full Stack Web Development*,**UNC Charlotte Coding Bootcamp* (8 month program*)* (2017)
* Bachelor of Science, Integrative Biology*:**University of Illinois (*2010)

**Published Works**

* MD Opal, SJ Klenotich, M Morais, J Bessa, J Winkle *et al*. Serotonin 2C receptor antagonists induce fast-onset antidepressant effects. *Molecular Psychiatry* 19, 1106-1114 (October 2014)

**Previous Experience**

* **Lowes Corporation –** Front End/Customer Service Associate

*February 2015 – March 2017*

* **Davidson College –** Research Technician, Department of Biology (Genetics)

*November 2012 – April 2014*

* **University of Chicago –** Research Technician, Department of Psychiatry

*August 2010 – September 2011*

**Current Interests**

* Learning PHP, Angular, Agile, MongoDB, .NET framework, WordPress, Sharepoint
* Building a multiuser blackjack application which will be run on an express server

**Additional Skills**

* Hard working, patient, resilient, strong analytical skills, creative, strong science background, team oriented, group collaboration, eager to learn new technologies and frameworks, honest, persistent