

## Alan A. Manning

manningalan659@gmail.com  
<https://github.com/aam659>  
<https://alan-manning-personal-site.netlify.com>

[www.linkedin.com/in/alanamanning](http://www.linkedin.com/in/alanamanning)  
(270) 978-3204

### Special Projects

---

**Android App Project:** Worked on class project to create an Android application using Android Studio.  
*Github:* <https://github.com/aam659/SpiceApp> 25 April, 2018

**Movie Database Project:** Worked on class project to simulate movie theatre website using PHP and SQL.  
*Github:* <https://github.com/njvanhaute/cs301-phase3> 7 Dec., 2018

**Personal Website:** Worked on personal portfolio website using Gatsby.js for front end, and GraphQL and Wordpress for the back end.  
*Github:* <https://github.com/aam659/PersonalSite> In progress

### Skills and Experience

---

**Programming:** C/C++ (Advanced), HTML (Advanced), CSS (Advanced), Javascript (Intermediate), Python (Basic), LaTeX (Basic), SQL (Basic), Java (Basic), VHDL (Basic), and MATLAB (Basic).

**Development:** Experience with Linux, React, Redux, Gatsby.js, and React-Native for web and mobile app development

**Other:** Mathematics and music background, with ability to perform many classical piano repertoire.

### Relevant Courses

---

**Software Design and Engineering:** Led software team in developing software model using Java.  
*Skills Acquired:* Studied various program life cycle models, UML, and other techniques.

**Data Structures and Algorithms:** Analyzed various algorithms in several programs using C.  
*Skills Acquired:* Studied and implemented many different algorithms and data structures.

**Microcomputers:** Designed and implemented several programs for the PIC-24 device using C and assembly  
*Skills Acquired:* Studied the PIC-24 microcontroller, as well as other microprocessor concepts.

### Education

---

**The University of Alabama**, Tuscaloosa, AL  
**Post-Graduate (Bachelor of Science) in Computer Science**  
GPA: 3.75 December, 2019

**Murray State University**, Murray KY  
**Master of the Arts in Mathematics**, May, 2015

**Murray State University**, Murray, KY  
**Bachelor of Science in Mathematics**, May, 2013

### Relevant Experience

---

**Student Athletic Tutor in Mathematics, The University of Alabama Bill Battle Academic Center**  
*Mathematics Tutor*, May 2016 – Present

- Tutored University of Alabama student athletes in several mathematics and computer science subjects to help them maintain their eligibility and succeed in the classroom to be able to compete on the field

**Graduate Teaching Assistant, The University of Alabama Department of Mathematics**  
*Mathematics Tutor and Grader*, August 2015 – April 2016

- Tutored University of Alabama student athletes in mathematics and served as student grader for various Calculus I, II, and III courses to help students succeed in their classes

**Graduate Teaching Assistant, Murray State University Department of Mathematics and Statistics**  
*Mathematics GTA*, August 2013 – May 2015

- Taught a section of MAT 097 (Intermediate Algebra) for courses of approximately 50 students over basic college algebra topics to help students better understand essential mathematics