

EDUCATION

BACHELORS OF ELECTRICAL ENGINEERING (B.E.E.), COMPUTER ENGINEERING OPTION – AUBURN UNIVERSITY

August 2010 – December 2014

- Acquired skills: C, Java, C++, Assembly, HCS12 architecture, VHDL, Wireshark, Nmap, and Metasploit
- Senior Design under the direction of Dr. Chwan-Hwa Wu, with a focus on computer security. We developed a secure wrapper around a VPN Server to provide silent user authentication and attack prevention.

HIGH SCHOOL DIPLOMA – HOUSTON ACADEMY

August 2006 – May 2010

- Graduated with honors

EXPERIENCE

TES DEVELOPER, AUBURN OIT

January 2015 – Present

- Develop Software solutions for Campus Web Solutions and AU Lease
- Serve as a mentor for new developers, aiding them in learning the .NET Framework and good coding practices
- Provide development support on several legacy applications
- Support several Microsoft MVC applications that are driven by AngularJS front ends.

Notable Projects:

- AU Lease Public – This is an AU Lease project that accepts new lease applications. I make changes to the application in order to have it provide the AU Lease team all the information they need to execute the lease request.
- Big Testing Center Scheduler – This is an application for Testing Services that allows them to create and manage seats in their testing facilities. I overhauled the core of this application, optimizing it to run quickly under the load it was experiencing.
- AU Lease Data – This is an AU Lease project that manages the lifecycle of machines leased on campus. I performed a series of bug fixes across the application, and worked additional feature development.

PROGRAMMING TEAM LEAD, TGL COMMUNICATIONS

September 2012 – Present (part-time)

- Acquired Skills: MySQL, PHP, IIS Server, Python, RS-232 protocol, MC9090 Development, and Git
- Coordinate development on software projects
- Discuss project specifications with clients, and work with floor workers to determine what was needed for a given project
- Lead a team of up to four software developers

Notable Projects:

- JFA Function Tester Monitor – This application prints labels for products going through a JFA function tester; then keeps track of data about that given part. It tracks how many times it had to be run to pass inspection, as well as reasons for the failures (if any).
- Inventory Manager – This application keeps track of the current inventory across several warehouses, and provides barcoded labels for ease of tracking. This was developed in C# using the MVC3 framework.
- Serial Data Collector – This project pulls data from several PLC driven machines to analyze production trends. This was developed using Python and PHP.
- Foam Plant Management Software – This project is used to manage product development workflow at the SCA Automotive Foam Plant. It provides feedback to the workers to help them select the correct raw materials for a given product, and prints invoices for outgoing shipments of finished products.

CO-OP WEB DEVELOPER, AUBURN OIT – CAMPUS WEB SOLUTIONS TEAM

May 2012 – December 2013, August 2014 – December 2014

- Acquired Skills: C#, MVC Framework, MS SQL, JavaScript, jQuery, CSS, and Team Foundation Server
- Managed several pieces of legacy code
- Developed new products for various campus departments
- Produced internal applications to improve team efficiency

Notable Projects:

- OIT Bootcamp Scheduler – This project manages all the classes that CWS offers every semester when they are training a new Co-op group.
- Office of Accessibility Proctored Exam Tracking System – This project allows students with disabilities to request an alternate exam time. They can specify what accommodations they need (extra time, reading aid, computer access, etc.) and the Office of Accessibility can then schedule a testing time and place where they can be accommodated. The test is then administered by an Office of Accessibility proctor, who will ensure that the student's needs are met.
- SEND Error Tracking – This project captures errors as they occur in CWS's applications and logs them in a central database. I also developed a front end to display relevant information and trend analysis. This was developed in C# using the MVC3 framework.
- OIT Migration Tool – This project manages the code migration process for the cws.auburn.edu domain. Applications are put onto the staging server, and this tool is used to schedule moving them to the production environment.

TECHNICAL SKILLS

PROFESSIONAL SKILLS

C#	MVC Framework	MySQL	MS SQL	Angular
PHP	JavaScript	jQuery	CSS	Git
IIS Server	Team Foundation Server	JSON		

OTHER SKILLS

Arduino development	Python	C	C++	RS-232 protocol
VHDL	Unity development	Wireshark	Git	HCS12 architecture
Java	MC9090 development	Nmap	Assembly	