

## Work Experience

### Iron Solutions

#### **Software Developer**

October 2019 - Current

Nashville, TN

- Created React application and supporting backend for viewing and filtering sales reports of farm equipment so that dealers and lenders can quickly and easily value their equipment. Largely successful launch.
  - Embedded pre-existing React application into NetSuite and architected SSO between the systems.
  - Contributed to our beautiful, powerful website for managing equipment inventory.
  - Very happy at Iron. You could reach out for short-term contract work though.
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### Premier System Integrators

#### **Engineer 3 - Software Engineer**

October 2018 - October 2019

Nashville, TN

- Full-stack engineer creating powerful software solutions for manufacturing companies.
  - Developed web-based dashboard for car manufacturer. Real-time car body tracking using SignalR to update graphical representation of plant floor. Optimized for iPads. Vue.js as the framework. .NET Core / MVC backend.
  - Created fault-tolerant, Windows WPF application to track parts added / removed from conveyor system using barcode scanners. Replaced manual entry into an AS400 system.
  - Developed source control solution for third-party product to minimize risk of lost or corrupted code in the product's database.
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### Echo Global Logistics

#### **Software Engineer**

May 2018 - October 2018

Chicago, IL

- Developed micro-service-based application for automating logistics operations with an Angular 6 fronted. Uses Consul for service discovery
  - Utilized CQRS and domain driven design patterns. Elastic Search read store and MS SQL Server write store.
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### Hyla Soft USA

#### **Manufacturing IT Analyst (A1)**

January 2017 - May 2018

Chicago, IL

- Created custom automation engine for moving robot vehicles throughout plant in aerospace manufacturing plant.
- Maintained leading open source C# OPC library.
- Updated and made corrections to Java-based oil blending reporting system.

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## Nucor Steel Louisiana

### **Level II Technician Intern**

March 2016 - December 2016

Convent, LA

- Provided on-site and remote work in order to introduce a higher level of automation to their process.
- Implemented delay tracking by polling PLC for delay status (was manually entered into spreadsheet). Replicated web interface from Tuscaloosa plant.
- Created web interface for viewing and recording truck weights as they enter and exit plant site. Replaced access database and manual entry of weights.

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## Nucor Steel Tuscaloosa, Inc.

### **Level II Technician Intern**

May 2013 - March 2016

Tuscaloosa, AL

- Created software and automation solutions for capturing and retrieving data for the steelmaking process (focusing primarily on the caster area).
- Re-designed slab inspection web page to communicate with third-party tracking system, Rollcim and improved logging.
- Created cost model website for estimating and reporting prime tons and yield by product type.
- Participated in planning for and installing Danielli Q3 Intelligence system (particularly involved with caster data).

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## Education

### Vanderbilt University, Nashville, TN

Current

GPA:

Masters in Computer Science

- Massively expanded my familiarity with cloud technologies, Docker, Kubernetes.
- Refreshed and enhanced my abilities with software patterns and architecture.

### The University of Alabama, Tuscaloosa, AL

Dec 2016

GPA:

Bachelor of Science in Computer Science

- Researched Leap Motion controller's practical applications. Created virtual theremin in Unity 3D to demonstrate the controller's potential in music education.
  - Worked in Lego Robotics Outreach program. Introduced young students to basic programming concepts.
  - Earned Webucator's Computer Science Scholarship for 2015-2016 year.
  - Earned Nucor Corporation University Collegiate Scholarship for 2015-2016 year.
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## Projects

### Chews

#### **Creator**

10.2019

React Native iOS/Android app for finding nearby restaurants at random.

- Leveraged location services and pass to Google API to find nearby restaurants.
- Implemented custom graphics and components with native (60fps) animations.
- Shared my library on GitHub for native loading spinners.

### H-OPC

#### **Maintainer**

8.2016

<https://github.com/hylasoft-usa/h-opc>

<https://www.nuget.org/packages/H.Opc/>

- Significantly improved unit tests and corrected error handling of UA and DA clients.
- Added custom options for UA client.

### Menuity

#### **Developer / DevOps**

5.2017

Built website with friends to view restaurant menus.

- Implemented AWS Docker deployments. Switched to DigitalOcean with CI using BitBucket pipelines.
- Created custom .NET Core service to listen for pushes to Docker repository and re-deploy website.
- MongoDB server, Node.js API, Vue.js frontend, and NGINX server.