

BENJAMIN BARRON

Full Stack Software Engineer

📞 (479) 640-0713 @ bjbarron@uark.edu 🔗 <https://github.com/benbarron> 📍 Bentonville, Arkansas

EXPERIENCE

Software Engineer II

Walmart Global Tech

📍 Bentonville, Arkansas

Senior Capstone Project Manager

University of Arkansas, Department of Industrial Engineering

📅 08/2020 - Ongoing 📍 Fayetteville, Arkansas

Working along side our industry partner, ArcBest, to standardize and automate processes that support receiving and returning pricing bids.

- Utilizing agile methodology to increase productivity
- Leading Bi-Weekly sprint planning meetings

AI and Analytics Intern

Cognizant Technology Solutions, Walmart Account

📅 06/2020 - 08/2020

📍 Bentonville, AR

- Worked as a full stack software engineer on a software system to create compliance with the California Consumer Privacy Act for Walmart and Walmart owned brands
- Ported an Angular 8 codebase to Walmart's in house version of React
- Designed and implemented Frontend Architecture
- Designed and implemented application level state using Redux
- Participated in Bi-Weekly Sprint planning meetings
- Technologies used: React, Typescript, NodeJs, Redux, Jest, React Testing Library, Azure Blob Storage, Looper (Jenkins), SonarQube, Github

Technical Assistant I

University of Arkansas, Department of Industrial Engineering

📅 12/2019 - 05/2020 📍 Fayetteville, Arkansas

- Worked as the grader for INEG 4833 - Database Concepts for Engineers

Camp Leader

City of Bentonville, Parks and Recreation Department 📅 05/2016 - 08/2018

📍 Bentonville, Arkansas

- Worked as a camp counselor for one year before promoted to camp leader
- Worked directly with the camp director to plan and carry out the camps
- Managed Camp Counselors
- Designed and implemented weekly activities
- Assisted with creating camp schedules

EDUCATION

Bachelor of Science In Industrial Engineering, Minor in Data Analytics

University of Arkansas

📅 08/2017 - 05/2021

📍 Fayetteville, Arkansas

GPA
3.5 / 4.0

High School Diploma

Bentonville High School

📅 08/2012 - 05/2016

📍 Bentonville, Arkansas

- Graduated Honors, with a focus area in STEM
- Relevant course work: Introduction to Engineering Design, Digital Electronics, Principles of Engineering, Engineering Development and Design

GPA
3.6 / 4.0

ADDITIONAL COURSES

Advanced Java Programming

Udemy.com

Data Visualization In R with ggplot2

Linkedin Learning

SKILLS / TECHNOLOGIES

Programming Languages

[Java](#) [Python](#) [R](#) [SQL](#) [Typescript](#)

Databases / Big Data

[Postgres](#) [MongoDB](#) [MySQL](#) [Redis](#)

[Hadoop](#) [Spark](#) [Databricks](#)

Additional Skills

[Data Modeling](#) [Computer Simulation](#)

[Network Optimization](#) [Statistical Analysis](#)

[Machine Learning](#) [Predictive Modeling](#)

[Random Forest](#) [XGBoost](#)

CLASS PROJECTS

Hub Location and Shipment Routing Optimization

📅 03/2020 - 05/2020 📍 Fayetteville, AR

- Operations Research project to find the most optimal location to place hubs
- Ran the models using AMPL and CPLEX
- Reduced run time complexity from hours to under a minute
- Reduced shipping costs by over 25%

🔗 <https://github.com/benbarron/OR-Project-Spring-2020/blob/master/Report.pdf>

Airport Expansion Design Case Study

📅 10/2019 - 12/2019 📍 Fayetteville, AR

- Modeled the Chicago airport check in system
- Collected statistics and performance metrics
- Conducted experimental design
- Reduced customer wait time by 40%

Computer Vision Syndrome Glasses

📅 08/2015 - 05/2016 📍 Bentonville, AR

- Year long project aimed to find a solution to computer vision syndrome
- Conducted research into eye strain
- Created and 3D printed a working prototype

LEADERSHIP / INVOLVEMENT

Sigma Alpha Epsilon Alumni

National Honor Society

Member of the Institute of Industrial and Systems Engineers