# CAROLINE AUSEMA

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## EDUCATION

**Bachelor of Science in Computer Science**                                          AUG 2020 - MAY 2024
Purdue University                                                                                 *West Lafayette, IN*
HONORS COLLEGE, SOCIOLOGY MINOR
RELEVANT COURSEWORK    Data Structures & Algorithms, Computer Security, Systems Programming,
Computer Networks, Operating Systems, Artificial Intelligence, Cryptography.

## EXPERIENCE

**PXEL Engineering Intern**                                                              MAY 2023 - AUG 2023
West Monroe                                                                                          *Chicago, IL*
– Collaborated with Energy & Utility client on a web-based SaaS product that optimizes and
  enhances the interconnection process for distributed energy resources.
– Proposed and built dynamic pages to streamline application review and management.
– Development: Angular, ASP.NET, C#, Azure DevOps

**Data Analyst Intern**                                                                  MAY 2022 - AUG 2022
MISO Energy                                                                                          *Carmel, IN*
– Automated a manual, 15-month certification process by developing a full-stack web application
  that ensures compliance of confidential cyber assets that are critical to the bulk electric system.
– Development: Angular, Flask, Python. — Production: Jenkins, BlackDuck, Fortify, Docker.

**Personal Device Technician**                                                           MAY 2020 - AUG 2020
K12 Tech                                                                                        *Michigan City, IN*
– Repaired, cleaned, and restored student devices. Installed district-specific software onto units.

## PROJECTS

**Next.js to p5.js Integration** — *Personal Website*                                    JULY 2023 - AUG 2023
Achieved dynamic visual effects on personal website with React functional components, interacting with
a variety of data sources including the Spotify API and TensorFlow Facial Recognition.
**Taste of Tippecanoe Projector Mapping** — *Tippecanoe Arts Federation*                 APR 2022 - JULY 2022
Generated programmed art and 3D models for video mapping with a multidisciplinary team. Used two
30k lumen projects to align art onto the Lafayette Courthouse at festival with over 35k attendees.
**Shell** — *Systems Programming Course*                                                 MAR 2022 - APR 2022
Created bash-inspired shell with wildcards, piping, .env variables, user history, and subshells.
**Leadership Lafayette** — *Hack the Future* (Team Lead)                                  OCT 2021 - MAY 2022
Led development team as a product manager & worked as a developer on an app that collects multimedia
public feedback for local non-profit. Empowered development team to collaborate and delegated tasks.
**'ScanIn' Bike Scanner** — *EPICS* (Team Lead)                                          AUG 2021 - JAN 2022
Managed communication with Purdue's Department of Transportation, overseeing project database, coor-
dinating web development efforts, delivering weekly progress reports, and delegating team responsibilities.
**'Ace Campus Food Pantry' Digitization** — *Big Data, Big Impact* (Team Lead)           JAN 2021 - MAR 2021
Proposed concept, led project team, and implemented web app to track pantry inventory.

## SKILLS

**Languages**    C, Java, Python, JavaScript, C++, C#, TypeScript, LaTeX, SQL.
**Tools**        Git, React, Angular, Next.js, Node, AWS, flask, Docker, Jira, Kubernetes, Jenkins, Azure.

## EXTRA-CURRICULAR ACTIVITIES

– Computational Art Circle (President), Ace Campus Food Pantry, Hack the Future, Purdue Powerlifting
– Student Pilot:    Piper Warrior II, Ninety-Nines Member, Region Flyers