

Owen Cushing

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EDUCATION

University of Illinois at Urbana-Champaign

Champaign, IL

B.S. in Computer Science and Music

Aug. 2021 – May 2025

- Cumulative GPA: 3.93 (Deans List Fall '21 - Spring '23)
- James Scholar Honors Program: College of Fine and Applied Arts

TECHNICAL SKILLS

Languages: C++, JavaScript, HTML, CSS, C#, C, Java, Python, Kotlin, Rust

Frameworks & Libraries: Blazor, Radzen, ASP.NET Core, React, Express, Flask, p5.js, TailwindCSS, JUCE

Developer Tools: Visual Studio/VSCode, XCode, Android Studio, Bash, MongoDB, Git, Node.js, Linux

Applications: Docker, Figma, Ableton Live, Onshape, Microsoft Office Suite

EXPERIENCE

IT Software Engineer Intern

May 2023 - Present

RLI Insurance — Small Commercial Lines

Peoria, IL

- Strengthened external application security with data validation for over 400 form fields
- Kickstarted frontend development of new business application for specialty insurance

CS 128 Course Assistant

August 2022 – Present

University of Illinois at Urbana-Champaign

Champaign, IL

- Develop presentation materials and coding activities for weekly discussion sections
- Assist students directly through online office hours and help forum

Lead Stage Technician – Lighting Designer

July 2021

Metamora Township High School

Metamora, IL

- Designed and programmed complex lighting cues for a two-hour musical production using ETC Ion console
- Coordinated with director and technical crew to quickly resolve creative and technical issues

COURSEWORK

CS 124 Honors: Intro CS I - Collaboratively developed NoiseDot project (Featured in Fall '21 [Hall of Fame](#))

CS 128 Honors: Intro CS II - Collaboratively developed Stereogif project (Featured in Spring '22 Hall of Fame)

CS 225: Data Structures - Used C++ multithreading to improve efficiency of graph algorithms for final project

MUS 305: Computation and Music III - Explored using stochastic and data mapping processes to generate music

PROJECTS

Source Scanner | *T3 Stack, MongoDB, Tailwind CSS, Metaphor API*

September 2023

- Web application that scans and annotates informational text powered by the Metaphor API
- Won in "Best Use of Metaphor API" and "Best Use of MongoDB" categories at PennApps 2023

NoiseDot | *Node.js, Express, Bootstrap, Firebase*

September 2021 – Present

- Allows users to upload and explore sounds recorded across the world on a map

Stereogif | *Rust, Image Processing, Multi-threading*

March – May 2022

- Converts a series of offset images into a stereoscopic gif

COMMUNITY & ACTIVITIES

Sophia's Kitchen

Fall 2018 – Spring 2021

Volunteer - Soup Kitchen

Peoria, IL

- Managed food donation inventory and prepared food
- Delivered Christmas food baskets during winter months

oSTEM

Fall 2021 – Present

LGBT+ STEM Organization

PizzaFM

Fall 2021 – Present

Radio Show Host - Sliced Music