Owen Cushing

(309) 294-6671 | opcushing@gmail.com | linkedin.com/in/opcushing | github.com/opcushing

EDUCATION

University of Illinois at Urbana-Champaign — Champaign, IL
B.S. in Computer Science and Music — *Aug. 2021 – May 2025*
- Cumulative GPA: 3.94 (Deans List Fall '21 - Spring '22)
- 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: React, Blazor, Radzen, ASP.NET Core, Svelte, Express, Flask, p5.js, Bootstrap, JUCE
Developer Tools: Visual Studio, Bash, XCode, MongoDB, Android Studio, VSCode, Git, Node.js, Linux
Applications: Docker, Figma, Firebase, Ableton Live, Onshape

EXPERIENCE

IT Software Engineer Intern — May 2023 - Present
RLI Insurance — Small Commercial Lines — *Peoria, IL*
- Maintained security standards for external web application by adding data validation to over 400 form fields
- Currently rebuilding application from scratch by implementing modern UI designs in Blazor web framework

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
- 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 & MUSICAL WORK

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

jam.town | *Node.js, Express.js, QR Codes* — February 2023 – April 2023
- Was developing RSVP ticketing system for local musical events

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