

134 Welles Street | Nanticoke, PA 18634 | (570) 814-7054

Education: **University of Pittsburgh** **Pittsburgh, PA | Fall 2018 - Spring 2022**
Bachelor of Science in Computer Science
Bachelor of Arts in Music Composition
Completed both degrees with a 3.96 GPA
Was on the Dean's List every semester (Fall 2018 to Spring 2022)

RELEVANT PROJECT EXPERIENCE AND ACHIEVEMENTS

- **Conduction Music Software**

As the lead engineer at Conduction Inc, I piloted the engineering team and personally interfaced with the company's design team and business team to the creation of Conduction's flagship project, a music software that enables regular DJs to control entire orchestras of musicians in real-time. This project allowed me to demonstrate my creativity, engineering knowledge, and leadership skills while creating an innovative new tool for artists, so I am very proud of this work.

- **Erie Insurance Server Admin Website**

While at my Software Engineering internship at Erie Insurance, I designed, engineered, implemented, and maintained a website for IT administrators to run a wide array of tests and validations across many company servers. I worked as a full-stack engineer with some teammates to run this project. The project was well utilized, so my internship was extended year-long.

- **Generative Music Research Paper and Album**

As part of my music composition degree, I utilized my knowledge of computer science to do cutting-edge research on the topic of machine learning and symbolic AI in the creation of generative music. My research culminated with a highly reviewed research paper as well as a demonstrative album of generative compositions. [Here is a link to the album.](#)

- **Mildred Posvar Scholarship Award**

I applied through a rigorous process and was chosen for my outstanding 3.96 GPA as well as for my cross-discipline enthusiasm for computer science and music. This scholarship helped me afford the tools needed to perform my previously mentioned research and experimentation with algorithms for generative music.

SKILLS

Proficient Programming Languages: Java, Javascript, Haskell, Python, C, Assembly (MIPS)

Other Skills: React, NodeJS, Agile/Scrum workflow, PM experience, DevOps experience, CI/CD pipeline, Documentation-focused Dev, TDD

WORK EXPERIENCE

- **Lead Software Engineer at Conduction Inc.**

Pittsburgh, PA | Spring 2022 - Current

I am the lead software engineer at Conduction Inc, a music technology startup in Pittsburgh, PA. I am currently leading the engineering and implementation of cutting-edge music technology using React and NodeJS. This position proved my ability to independently manage a project from scratch as well as pushed me to learn new technologies on the fly.

- **Software Engineer Intern at Erie Insurance (ERIE)**

Erie, PA | Spring 2021 - Spring 2022

I worked on a DevOps team as a full-stack engineer to create an internal website writing in Python and Javascript. Admins have used this website throughout the company to run tests and verify vital information across the company's many servers.

- **Computer Science Tutor at The University of Pittsburgh**

Pittsburgh, PA | Fall 2020 - Spring 2021

I tutored many students taking courses in Java, Python, assembly language, algorithms, and system software.

- **Computer Assistant at Nanticoke Historical Society (NHS)**

Nanticoke, PA | Summer 2019

I worked with the PastPerfect museum software to optimize the workflow of logging historical data.

- **Data Consultant at Greater Nanticoke Area Family Center**

Nanticoke, PA | Summer 2016 - Fall 2016

I compiled data on parent-child activities with kindergarten literacy scores, met with Family Center staff to assist in identifying correlations with achievement and prepared relevant charts for use as infographics for school and statewide publications.