

EDUCATION

B.S in Computer Science — University of Pittsburgh

September 2015 - December 2019

Pittsburgh, Pennsylvania

Minor in Chemistry

Overall cGPA: 3.504

Computer Science cGPA: 3.71

MCAT Exam

August 2019

Score: 514 (90th percentile)

EXPERIENCE

Junior Software Developer at D'Angelo Technologies — Zelienople, PA

February 2021 - Ongoing

- ❖ Sole project maintainer and full stack developer for software built on ship simulator for a government client
- ❖ Managed tasks using a Kanban board, work efforts using the scrum framework, and bitbucket with git for project coordination/maintenance
- ❖ Evaluated various solutions for speech to text (STT) and text to speech functionality, then implemented solutions for both into project, working with Docker, Microsoft STT libraries, UWP, and Vosk STT in the process
- ❖ Trained a neural regression network to aid in autopiloting ships in a ship simulator (PyTorch)
- ❖ Wrote from scratch both a WinForms and WPF app in C#

Research Assistant in Robin E. C. Lee's Lab — Pittsburgh, PA

May 2019 - August 2019

- ❖ Sole software developer for one of the lab's ongoing projects
- ❖ Participated in hardware development, working with a microcontroller and configuring a circuit board to control a microfluidic chip
- ❖ Worked in a wet lab environment

PERSONAL PROJECTS

What Song Is That? Twitter Bot -

Started 2020

- ❖ I decided to write and host a twitter bot for fun and for the learning experience on my own raspberry pi server for a friend's twitter account.
- ❖ It takes requests from users who wish to know what song is playing in a tweet, queries Shazam's API on their behalf and displays its findings on a website I created for it. It has successfully fielded over a thousand song requests so far
- ❖ Checkout [whatsong.page](#) for more information

AutoSage - Started 2021

- ❖ AutoSage is a Python written app for users of BeatSage, an AI driven service made for the popular VR rhythm game Beat Saber
- ❖ AutoSage simplifies and automates the process of using BeatSage for all of the songs the user wishes to play in Beat Saber.
- ❖ The tool has been updated to be packaged into a Windows executable using PyInstaller, and features a UI built using Tkinter for ease of use

3D Interactive Portfolio - Started 2021

- ❖ I created a portfolio using three.js that shows my personal technological efforts and projects in different worlds belonging to a celestial system in a miniature universe
- ❖ View it on my website: alanmunirji.dev

EXPERIENCE (Volunteer)

Software Development for patient onboarding app project (15 hours)

- ❖ Contributing to a project whose goal is to make an app that clinics can use to quickly get medical and family history as well as general patient information when a patient checks into a clinic
- ❖ The plan is to release the app for free to physicians that are running microclinics, small clinics staffed by themselves and maybe one or two more employees, to make it easier to manage their clinic
- ❖ App is written in TypeScript and uses the React JS library

TECHNOLOGIES I HAVE EXPERIENCE WITH

- ❖ Python (PyTorch, Numpy, Tkinter, selenium, beautifulsoup)
- ❖ C#
- ❖ JavaScript/TypeScript
- ❖ C/C++
- ❖ HTML/CSS
- ❖ MongoDB (C++, Compass)
- ❖ Swift
- ❖ Java
- ❖ ActiveMQ (C#, C++)
- ❖ Docker

SPOKEN LANGUAGES

- ❖ English (Native)
- ❖ Arabic (Conversational)