Alec Warren

PROGRAMMER | TINKERER HE/HIM/HIS

AlecWarren.com

AlecWarren19

in AlecWarren19

717-216-9596

IIII June 2021 - December 2021

LANGUAGES

Advanced: Python, HTML, CSS Proficient: JavaScript, jQuery, C#, C/C++, Java, JSON, Assembly Familiar: SQL/MySQL, Bootstrap, Sass, Django, Flask, Node js, PHP, Matplotlib, WordPress

SOFTWARE

Advanced: Full Suites: Microsoft Office and Google Drive

Proficient: Autodesk Inventor, AWS, Visual Studio, VSCode, Adobe Premiere, Illustrator, After Effects

SKILLS

CS Specific:

- ♦ Full Stack Development
- ♦ Object-Oriented Programming
- ♦ Web & REST API & HTTP Servers
- ♦ Machine Learning & Neural Nets
- ♦ GNU / Linux ♦ UI & Web Design
- ♦ AWS & DNS ♦ GitHub / Git

Tech Related:

- ♦ 2D & 3D Modeling & Design
- ◊ Robotics ♦ Soldering
- ♦ Circuits ♦ Arduino & RPi

Other:

- ◊ Inquisitiveness ♦ Leadership
- ♦ Mentorship ♦ Determination
- ♦ Spanish Fluency

HONORS

- ◊ Intel International Science and Engineering Fair (ISEF) Participant | 2018, 2019
- ♦ Capital Area Science and **Engineering Fair Grand** Champion | 2018, 2019
- ♦ National Spanish Exam Silver Medal | 2019

INTERESTS

- ◊ IOT / Embedded Systems
- ♦ Speakers & Audio Systems
- ♦ Bodybuilding ♦ Machine Vision
- ◊ eSports ◊ Fabrication

PROJECTS (portfolio.alecwarren.com)

Sadie Spot Server | Multi-Use Home Server Jul '19 Web, File, HTTP, and Game Server Running Ubuntu - Present

- ♦ Designed and implemented a custom <u>REST API</u> using <u>Python Flask</u>
- ♦ Public facing API connects various personal projects over the internet
- ♦ Webserver hosts various public personal websites via LAMP stack

Four-Way Autonomous Intersection Simulation - May '19

Self-Driving Car A.I. without Need for Traffic Lights ♦ Created a 2D simulation from scratch with realistic physics in C#

- ♦ Invented decentralized A.I. inspired by swarm intelligence
- ♦ Back-to-back regional science fair victories and entries into <u>ISEF</u>

ThinkNexusDesign.com Website

Nov '16 - Present

Oct '17

Commercial Website Developed From Scratch

- ♦ Designed using HTML, CSS, and JavaScript with jQuery
- ♦ Made fully <u>responsive</u> with four breakpoints: Mobile to Desktop

EXPERIENCE

Netrepid | Programming Intern May '19 Harrisburg, PA - Aug '19

- ♦ Maintained and repaired Netrepid's website
- ♦ Created and published a new fully <u>responsive</u> tool page w/ SSO
- ♦ Developed multiple <u>full-stack web apps</u> to automate tasks by creating integrations between different services via their APIs

Skills Used: Full-Stack Development, Python (Django), JavaScript (jQuery, NodeJS), HTML, CSS, MySQL

Self-Employed | Web Designer/Developer Harrisburg, PA & Boston, MA

Sep '16 - Present

♦ Created ThinkNexusDesign.com in late 2016 and have been slowly upgrading it since - published major update V2.0 in 2019

Harrisburg Academy | IT Intern

Jun '15

Harrisburg, PA

- Aug '17

- ♦ Removed, reinstalled, and troubleshot entire phone system
- Reset and upgraded faculty laptops for yearly reset

EDUCATION

Northeastern University | Boston, MA

Sep '19

Khoury College of Computer Sciences | 3.0/4.0 GPA

- Apr '24

BS in Computer Science | AI Concentration | Robotics Minor

Relevant Coursework: Foundations of AI, Programming in C++, Embedded Design, Intro to Web Dev, Object Oriented Design, Algorithms & Data, Mathematics of <u>Data Models</u>, Linear Algebra, Theory of Computation

Harrisburg Academy | Wormleysburg, PA

Jan '05

Valedictorian | Varsity Triathlete & Captain | 4.0/4.0 GPA International Baccalaureate (<u>IB</u>) Full Diploma Recipient

- Jun '19

VEX Robotics Team Captain & Co-Founder

Self-Driving Car Nano-Degree | Udacity

Oct '17

Computer Vision & Machine Learning via Python & C++

- Feb '18