Andrew Polk

Full Stack Developer

As a full stack developer, I enjoy using my strong attention to detail, my unequivocal love for making things, and my passion for problem solving to take on any challenges that come my way. That's why I'm excited to make a big impact wherever I am and on everything I work on.

Personal Info

Email
andrew@polklabs.com

LinkedIn
www.linkedin.com/in/polkandrew

Website
www.polklabs.com

Skills

Application Development

Concept Development

Problem Solving

Written and Verbal Communication

Software

Angular

.Net Framework/Core

Microsoft SQL Server

NodeJS

Unity3D

Languages

C#

Typescript

SQL

Python

Hobbies/Interests

Photography

Video Games

Playing Musical Instruments

Cycling

Reading

Boardgames

Work History

Full Stack Developer – 2019-05 - present

Tecolote Research, Inc, Santa Barbara, CA

- Gained hands-on experience with Angular, .Net Framework, SQL, Version Control
- Led restructuring dozens of enterprise workflows for Angular and .Net Framework
- Designed and implemented components, systems and features based on user requirements and business demands
- Revamped an existing desktop application into a web-based application
- Wrote code, tested, deployed, and maintained software for desktop and mobile devices
- Available to users for technical support and to quickly fix issues with minimal down time
- Feature owner responsible for entire lifecycles of workflows and applications

Research Intern – 2018-06 – 2018-08

Naval Postgraduate School, Monterey, CA

- Gained knowledge in data visualization and manipulation working with large data sets
- Used neural networks and other concepts for problem solving
- Corresponded with high-ranking researchers on datasets ranging from education to networking attacks
- Collaborated on multiple deep learning based scientific papers

Projects

Survey of the Month – 2021-08 - present

Personal

Created a website that uses text interpolation and random number generation to create funny and creative questions to ask your friends. Build an Angular frontend and NodeJS backend with a NoSQL database to store full surveys, all without requiring accounts.

Logic Circuit Simulator – 2019-10 - present

Personal

Created a program to simulate physical based logic using C# and Unity. From the ground up developed a simulator for AND/OR/NOT/etc. logic gates which could then be combined into integrated circuits. The components could be placed on a breadboard, combined into more complex circuits and simulated in real time.

Drowsiness Detector – 2019-06

Senior Capstone Project

Collaborated on a Python desktop program that detects drowsiness in a user and alerts them through input from a webcam. Guided the project structure as the technical lead while implementing core functionality. Created an accompanying mobile application to view information and statistics from main application

Education

Computer Engineering, Bachelor of Science – 2015-09 – 2019-06

University of California, Santa Barbara