

BRANDON BARKER

SOFTWARE ENGINEER

CONTACT



brandonbarker.me



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+1 (215) 530-1609

LANGUAGES

Python C#
Javascript Mathematica
Java Visualforce
HTML/CSS/LESS C++
Bash

FRAMEWORKS

NodeJS WebGL
Gulp Jackson/JSON
Grunt JDBI
Makefile Google Cloud
ReactJS JQuery
Amazon Web Spring
Heroku Google Web
Django Numpy
Maven Docker
Gradle web2py
SQL Flask
Postgres MySQL

EDUCATION

COMPUTER SCIENCE MAJOR
BUS. MANAGEMENT MAJOR
MATHEMATICS MINOR
West Chester University 3.9
2017-2021

SOCIAL



github.com/projectbarks



linkedin.com/in/projectbarks



@projectbarks

EXPERIENCE

CESIUM GS

SOFTWARE ENGINEER INTERN

May 2019 - Aug 2019

- Built integrations for popular 3D content creation tools - WebODM, Blender, and 3D Max - for smooth upload to Cesium ion to generate 3D Tiles for use in CesiumJS and other 3D engines.
- Championed efforts at improving Cesium JS rendering and solely orchestrated most of the changes within version 1.61.

COMMA.AI

SOFTWARE ENGINEER INTERN

May 2018 - Aug 2018

- Developed a mapping engine capable of loading 5,000,000+ miles of data.
- Structured toolset to generate 3D Tiles, render the data within a browser context, and provide metadata when interacting with the mapping frontend.
- Succeeded in delivering all components of the project within scheduled time frames and further advanced my software development skills.

DOKKIO

SOFTWARE ENGINEER INTERN

Jun 2017 - Jan 2018

- Leveraged initiatives in analysing 2000GBs of data and created a recommendation system for categorizing files and folders.
- Implemented a document preview engine capable of loading documents with hundreds of pages using HTML5.
- Optimized the file system architecture and enhance the efficiency of file searching and matching.

EXPERIENCE ABRIDGED

YURGOSKY - SOFTWARE ENGINEER INTERN

Jun 2016 - Oct 2016

AIRPHRAME - SOFTWARE ENGINEER INTERN

Jun 2015 - Oct 2015

CLOUDMINE - SOFTWARE ENGINEER INTERN

Jun 2014 - Aug 2014

AWARDS

TOP 10, BEST HARDWARE & HEALTH HACK AT PENNAPPS

Sep 2019

Engineered an assistive device for cross-space navigation and obstacle avoidance through SLAM with haptic feedback.

BENJAMIN E. FABER AWARD

Nov 2018

Scholarship awarded to earning students studying mathematics as a minor and display exceptionalism within their classes.

BEST AUTONOMOUS AT FTC WORLD COMPETITION

Apr 2017

Awarded the Control Award for implementation of a Kalman filter, PID drive, and integration of sensors in the control of the teams robot.

PROJECTS

ELDERLYF

Self-navigating and obstacle avoidance walker for the blind elderly.

BEATSYNC

Web App that uses WebRTC to sync music across multiple devices with low latency.

IOCLIST

Eye exams through your phone, testing: astigmatism, color blindness and visual acuity.