Aiden **Benner**

Software Developer

✉ abenner@uwaterloo.ca   🏠 abenner.ca   ⌂ aidenbenner   ☎ (587)582-2114   **in** in/aidenbenner

Skills

Languages: C++ // C# // C // Java // Python // JavaScript // Scala
Technologies: Django // .NET // Node // React // Angular 2 // Android // IOS
Tools: Git // Unix // Bash // Vim

Experience

A Thinking Ape   **Vancouver, BC**
Software Developer Intern   Jan 2018 - May 2018 (expected)
- Developed a utility to automate adding new item groups using **Django** and **JS** automating hours of work weekly
- Overhauled a fullstack legacy news service that notifies users of in game events using **Django**, **Objective-C** (IOS) and **Java** (Android) for a mobile game with over 20k active daily users

Localintel   **Calgary, AB**
Fullstack Developer Intern   May 2017 - Sept 2017
- Created a service that compiles and generate pdf reports using **Latex**, **Angular 2**, **.NET Core** and **C#**
- Developed an automated visual frontend regression test utility using **phantomjs**, **nodejs**, and **C#**
- Designed a **Python** utility to compile and filter analytics data into client ready pdfs

GEO-SLOPE International   **Calgary, AB**
Backend Developer Intern   Jul-August 2014, 2015, 2016
- Developed a webservice, using **C#** and **SQL**, to parse analytics XML from thousands of GeoStudio sessions daily
- Created a utility using **C#** that uses license data to send customers reminders, automating hours of work weekly
- Developed a service using **C#** to automatically backup log files stored on production servers over FTP
- Implemented a service to detect log errors and send internal alerts when scheduled tasks and services fail

Projects

Raytracer ⌂   **Feb 2017**
 aidenbenner/raytracer
- A realistic graphical renderer and vector math library implemented in **C++**
- Supports reflections, refractions, translucent material and soft shadows using montecarlo rendering

Lacs Compiler   **Dec 2017**
- Compiles a subset of Scala into Mips assembly using CYK parsing and an abstract syntax tree
- Supports closures, inner functions, first class functions, garbage collection and type checking

Orbit Assistant ⌂   **Sept 2016**
 aidenbenner/orbit-assitant
- A portable personal assistant written in **C++** and built for the TI Tiva and Orbit Boosterpack
- Microcontroller communicates over serial with an event handling framework written in **Python**
- Features include reddit and email clients, with location dependent weather and time updates

Pomodoro Timer ⌂   **Jan 2018**
 aidenbenner/react-timer
- A simple pomodoro timer created with **React** that helps track your productivity and prevent burn out

Education

University of Waterloo   **Waterloo, Canada**
Candidate for Bachelor of Software Engineering   2016 - 2021 (Expected)

Awards

Term Dean's Honour List (1A, 1B, 2A)   **2016, 2017**
Semifinalist Vex Robotics World Championship (Team 3388)   **2016**
Semifinalist FIRST Robotics World Championship (Team 4334)   **2016**
3rd Junior Division Alberta Collegiate Programming Competition   **2016**