Aiden **Benner**

Software Developer

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Skills

Languages: C++ // C# // C // Java // Python // HTML // CSS // JavaScript // Scala
Technologies: .NET // Node // Angular 2 // SQL // Azure
Tools: Git // Unix // Bash // Vim

Experience

Localintel   **Calgary, AB**
Fullstack Developer Intern   May 2017 - Sept 2017
- Created a service that compiles and generate report pdfs 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 the 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

Neural Network for Printed Optical Character Recognition ⌂   **Sept 2015**
aidenbenner/handwriting-ann
- A neural network and backpropagation implementation written in **Java** to classify images of printed text
- Uses **OpenCV** to segment and normalize images of printed text into individual characters

Orbit Assitant ⌂   **Sept 2016**
 aidenbenner/orbit-assistant
- 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

Matrix Utilities ⌂   **Sept 2016**
 aidenbenner/matrix-utils
- A web based suite of matrix utilities written in **JavaScript**
- Uses Gaussian Elimination to calculate matrix inverses or determinants and renders output with **Latex**

Education

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

Awards

Term Dean's Honour List (1A, 1B)	**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**