

JACOB BASS

Contact

**Address**

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**Phone**

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**Email**

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**Portfolio**

jsbass.com
github.com/jsbass

Skills

Microsoft Office

Solidworks

MATLAB

Visual Studio

Agile/Scrum

C/C++

C#/JAVA

SQL

HTML/CSS

Git

Education

Aug 2013
– Aug 2016

Bachelor of Science: Aerospace Engineering

University of Oklahoma
3.0 GPA

Aug 2010
– May 2011

Oklahoma School of Science & Mathematics

Regional Center

Profile

I have been involved with the University of Oklahoma for six years now. After graduating with an engineering degree, I have spent the last three years working as a software developer. I am proud to have also had several opportunities to mentor several students both through my team and also outside of OUIT. I have multiple examples of self-motivation and opportunities where I've been fortunate enough to pass my experience onto younger generations.

Work

Sep 2016
– Present

OU IT – IT Studio

IT Analyst II

Full stack web and mobile application development. Gained experience working as part of a team in an Agile development process, involved in tasks including: **development, QA, deployment, and support.**

Aug 2015
– Jun 2016

OU IT – Learning Spaces

Lead Technician

Student job leading team of peers and mentoring new employees. Gained experience with team organization and process improvement.

Experience

Spring 2018
– Present

QA Internship

Mentor

Provided training, goals, and mentorship to a rotating QA intern on our software team. I worked with the student to help them learn our process as well as setting up projects and goals for them to complete over the course of their internship.

Fall 2018

MIS Cup

Technical Mentor

Lectured students on how to quickly setup Alexa skills and provided any help for students during the development of the skills.

Summer 2018

IT Innovation Internship

Technical Mentor

Helped student develop Alexa skills. Helped the student design, print, and integrate a physical button with an Alexa skill in order to help with an ADA emergency process.

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Awards



AP Scholar with Distinction
College Board



Science & Engineering Fair US Army Award
US Army Research Lab



Oklahoma Regents Scholar
Oklahoma State Regents for Higher Education



OUIT Employee of the Month
University of Oklahoma



Physics Journal Club Presenter
University of Tulsa

Experience Cont'd

Fall 2015

Dashboard Development for OU IT

Self-Started Project for OU IT – Learning Spaces

Design and implementation of web based data source compilation and display. Self-proposed project approved by team lead for a modern, responsive interface with dynamic information loading. Gained experience creating system documentation and interdisciplinary experience with team members from various fields of study.

Spring 2014

Embedded Systems

AME 3623

Design and construction of an automated hovercraft with maze traversing. Gained experience with low-level programming of a microprocessor and functional programming with C.

Projects

Personal projects with which I've been involved.

Spring 2017

OU Map

Host removed. Rehost imminent.
Completed

Map of OU buildings and parking lots with quick click detection handled on the backend using a spatial partitioning tree. Contains features for editing the building details including the clickable building polygon on the map.

Fall 2017

Labradorium (Private Source)

<https://www.labradorium.com>
Incomplete

Book hosting and auto-grading assignment tools to facilitate learning in the classroom and ease the overhead of teaching large classes. I am one of two co-owners of the company. The source code is private as this is part of my company's code.

Fall 2015

2D Airfoil Analyser

http://jsbass.com/stuff/JavaScript/Aero/JS_Foil.html
Incomplete

Client-side app that uses a Vortex-Panel method to calculate forces on a 2D airfoil. Only graphing library and functions to convert NACA airfoil numbers to cartesian equations. Put on hold for school.