

Andrew R. Bass

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Education

UMass Amherst
BS Computer Science 2018
Commonwealth Honors College
Cum. GPA: 3.97

Relevant Coursework

Algorithms*
Operating Systems*
Programming w/ Data Structures
Intro to Computer Architecture
Programming Methodology
Computer System Principles
Reasoning Under Uncertainty
Intro to Computation

*currently enrolled

Relevant Skills

Operating Systems

Windows, OS X, Linux

Languages

Java - Proficient
PHP/Hack – Proficient
C/C++ – Exposed
JavaScript – Exposed
Python – Exposed

Experience

Facebook, Inc | Menlo Park, CA

June – August 2016

Software Engineering Intern

Worked on the Search Engine Optimization team to increase inbound referral traffic on public people results pages. Implemented front-end and dataswarm pipeline to add filtering of results by schools and cities.

Facebook University Intern

June – August 2015

Worked as part of a team of 4 interns to produce a standalone Android application. Learned all stages of development, from creation of data model to polishing of views.

MITRE Corporation | Bedford, MA

June 2014 – January 2015

Software Engineering Co-op

Developed Python scripts that automated tagging and reporting of resources on AWS. Leveraged complex C# libraries to develop a debugging application in C# for a program for the US Dept. of Homeland Security that allowed sharing of information between governmental emergency response agencies.

Projects

MITRE Embedded Security Competition

Spring 2016

Semester Long Independent Study Project

Created a secure implementation of an internet-connected door lock with 2-factor authentication using the BeagleBone Black.

Worked to find security vulnerabilities in other team's implementations.

PoliTweet

Hack Beanpot 2016 Finalist, Best UI/Visual Design

Created a platform that analyzed the sentiment of tweets about the current presidential candidates and graphed this data in various ways using D3. Implemented with NodeJS, MongoDB, Socket.io, and React.

LeapMotion Rock, Paper, Scissors

Hack Holyoke 2015

Created a real-time online multiplayer game of RPS using the LeapMotion controller to detect player gestures. Used Socket.io with a NodeJS/Express backend hosted on AWS.

CampusForSale

Hack UMass 2015 Finalist

Create a website that allow students to buy and sell from each other on campus. Used MongoDB, NodeJS, Express, and AngularJS to create a searchable catalog of items for sale hosted on Azure.

BuzzR

Hack Beanpot 2015

Created an iPhone application to replace pagers that restaurants use for reservations. Integrated a Parse backend with push notifications and QR code integration. Created an iPad application to serve as the dashboard for the restaurant to alert patrons that their table is ready.

UMass Late Night

2014

Personal Project (2.1K+ downloads)

Created an iOS application that displays the latest information for UMass Amherst students about what is available for late night dining. Integrated a Parse backend.