Christopher Magana

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EDUCATION

NORTHEASTERN UNIVERSITY
BS in Computer Engineering
current | Boston, MA
College of Engineering
Cum. GPA: 3.1 / 4.0

HSF SCHOLAR
Provides resources for the completion of higher education to exceptional Hispanic American students.
Grad. May 2017| Worcester, MA

UPWARD BOUND SCHOLAR
Provides promising but at-risk high school students with the opportunity to achieve a college education.
Grad. May 2017| Worcester, MA

SOUTH HIGH
High School Diploma
Goddard Scholars Academy
(City-Wide selective program for high achieving students)
May 2017 | Worcester, MA

COURSEWORK

UNDERGRADUATE
Computer Systems
Embedded Design
Engineering Algorithms
Fundamentals Of Digital Design
Discrete Mathematics
Linear Systems
Differential Equations and Linear Algebra
Circuits And Signals

SKILLS

TECHNICAL SKILLS
Proficient with:
C++ • C • Javascript • React
Git • Linux • HTML • MongoDB
Familiar with:
Python • Matlab • CSS • SolidWorks
Assembly(MIPS/x86-64) • Node
Express • Markup • AngularJS
LaTeX • Redux • SimuLink •Verilog

SOFT SKILLS
Strong
Initiative • Resourcefulness • Grit •
Bilingual Communication (Spanish)

EXPERIENCE

MBTA | Data Analyst Co-op
Jan 2019 - Jun 2019 | Boston, MA
- Was part of the Data Analyst Team but focused almost entirely on Web Development.
- Wrote and refactored code for a department-wide internal tools web application called Procurement and Logistics Internal Tools(PLIT).
- Negotiated the transfer of PLIT from AngularJS to React.
- Added Front-end features to the user interface with a focus on user experience in React.
- Used Redux as a Predictable state container.
- Created RESTful APIs using Express and Node.
- Created and managed Schemas in MongoDB.
- Assisted in project management decisions.
- Helped Train interns on version control and using git.
- Added Python scripts to data fetching bot.

YOU INC., | Office Intern
Aug 2014

Assisted in Day to Day activities such as phone calls, organizations of resources, assembling of info packets, filing etc.,
Note: This lead to an opportunity in my high school office where I was able to become an assistant for community service.

PROJECTS

AUTONOMOUS LIGHT-SEEKING ROBOT |
Nov 2017 – Dec 2017
- Ran Search Algorithm Simulations using Matlab
- Designed and Printed 3D part using SolidWorks
- Designed and laser cut 2D part using AutoCAD
- Designed Automation Algorithm for Robot Pathing

DESIGNED CPU | Based on MIPS Architecture
September 2019 – December 2019
Written entirely in Verilog and run on the Zedboard.

ZEDBOARD CALCULATOR | Digital Logic only
Dec 2018
Created a Zedboard Calculator using only digital logic components such as adders and multiplexers to perform basic bit-wise arithmetic.

FUN FACTS

INTERESTS
Space Exploration • Investing • Algorithm Design

HOBBIES
ESports • Snowboarding • Building Computers