

Zachary Marcus

zachary.j.marcus@gmail.com | 704.763.5707 | 480 Rear Parker St, Boston, MA 02115
<http://zacharymarcus.xyz>

EDUCATION

NORTHEASTERN UNIVERSITY
BS IN COMPUTER ENGINEERING AND
COMPUTER SCIENCE
Expected May 2019 | Boston, MA
College of Engineering
Dean's List (Three Semesters)
GPA: 3.82 / 4.0

SKILLS

PROGRAMMING

Android • Web
C++ • Java • C • OpenCL
Python • Windows Batch • Bash
HTML • CSS • JavaScript

COMMUNICATION

Working Proficiency in Spanish • Public Speaking • Leadership

COURSEWORK

Object Oriented Design
Fundamentals of Algorithms
Embedded Design: Enabling Robotics
GPU Computing
Logic and Computation
Fundamentals of Computer Science I & II
Circuits and Signals
Physics II: Electricity and Magnetism

HONORS / AWARDS

National Merit Scholar Award
MakeBU 2015 Hackathon Winner
CleanWeb Hackathon Crowd Favorite
Pavlok Shockathon 3rd place contestant

LINKS

Github:// **ZachMarcus**
LinkedIn:// **zacharyjmarcus**

EXPERIENCE

ADVANCED MICRO DEVICES (AMD) | SOFTWARE COOP ENGINEER

January 2016 - Present | Boston, MA

- Scripting in Python and Windows Batch to test modifications to the shader compiler
- Analyzing bugs in compiler caused by shaders and determining sources of bugs

NORTHEASTERN UNIVERSITY COMPUTER ARCHITECTURE RESEARCH LAB | UNDERGRADUATE RESEARCH ASSISTANT

May 2015 - Present | Boston, MA

- Expanding Android application for simplified GPU benchmarking, porting a benchmark suite designed for heterogeneous computing infrastructures
- Developing Android application and executables for side channel analysis of mobile device GPUs

SUPERCOMPUTING 2015 | UNDERGRADUATE STUDENT COMPETITOR

August 2015 - November 2015 | Boston, MA; Austin, TX

- Part of a team competing in the International Conference for High Performance Computing
- Learning the particular hardware and optimizing configurations for specific applications

ENERDYNE POWER SYSTEMS | ENGINEERING INTERN

May 2013 - Aug 2013; May 2014 - Aug 2014 | Charlotte, NC

- Modified database of methane gas well readings spanning two decades
- Trained 12 landfill managers in Excel functionality to assist in monthly reports
- Created diagrams and other visuals for use in project proposals and documentation
- Executed pipeline plans in active landfills

VOLUNTEER EXPERIENCE

GENERATION CITIZEN | DEMOCRACY COACH / COHORT LEADER

Sep 2014 - Present | Boston, MA

- Advise on how to best deliver an action civics education to students
- Communicate with community partners and local figures to determine solutions to community problems
- Guided classes in projects tackling issues to facilitate learning

ACTIVITIES & SOCIETIES

Major-related:

NUMakes, Citizen Teaching, NU Hacks, IEEE, Wireless Club (Ham Radio)

Northeastern-Related:

Generation Citizen, Civic Engagement Program, Northeastern University Honors Program