

KYLE MURRAY

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY, Honors Program

Atlanta, GA

- B.S. in Biomedical Engineering – Overall GPA: 3.5
- Minor in Computer Science (Info-Networks) – CS GPA: 3.9

August 2013 - May 2018

WORK EXPERIENCE

CS 2110 - COMPUTER ORGANIZATION AND PROGRAMMING

Atlanta, GA

Teaching Assistant

January 2017 – present

- Help students learn computer science fundamentals: binary, digital logic, circuits, basic computer architecture, assembly, and C
- Lead bi-weekly recitations and create homework assignments, labs, and grading tools

MAILCHIMP

Atlanta, GA

Systems Software Engineering Intern

May – August 2017

- Worked in 4-person team to set up and deploy new server shard for Mailchimp application. Manual steps included base puppet configuration, creating VIPs, establishing redundant server failovers, and manual software RAID.
- Side projects: CLI hostname shortcut in GO, scaled servers using puppet, automating software RAID using RedHat Kickstart.

ST. JUDE MEDICAL

Sylmar, CA

Software Engineering Co-op

January – July 2016

- Recommended for Six Sigma Green Belt by Software Director for taking initiative to rewrite old performance test tool in C#; saved hundreds of senior-developer man-hours and allowed for more frequent (6 fold) regression testing by several departments
- Ported outdated software verification scripts into new C# testing environment, improving readability and maintainability of tests

PERSONAL PROJECTS

TOLL LABS STARTUP PROJECT

Atlanta, GA

Co-founder

March 2016 – present

- Implementing Patent Pending “Immunoassay for Detection of Pathogen-Associated Molecular Patterns” into diagnostic kit
- Participated in Georgia Tech CREATE-X ‘17 startup incubator, receiving \$20,000 and professional mentorship to pursue business

HACKATHONS

HackGSU 2016 – 1st Place Grand Prize

October 2016

- Created iPhone application that integrates homemade spectrometer and allows crowd-sourced data of water quality by location
- Personally created the iPhone GUI in Swift 3, integrating camera, spectroscopy, Amazon Lambda API, and MapQuest API

HackGT 2016 - Winner of HBK Award of Awesomeness

September 2016

- Created web app that interacts with Facebook, Twitter, & LinkedIn APIs and optimizes plane seating by social or business criteria

SIDE PROJECTS

- **MATLAB Eye Tracker:** tracks eye movement to move cursor to user’s point of focus on screen, using image analysis API
- **Pokemon Tower Defense game:** used JavaFX and MVP architecture to develop video game with enemies, store, waves, etc.
- **8-Bit Computer:** created unique 8-bit computer in Logisim based on LC-3 structure and implementing own instruction set
- **Personal Website:** developed dynamic website from scratch using HTML, CSS, JS, and minimal bootstrap: kylejmurray.com

LOCAL LEADERSHIP

FRESHMAN SERVANT LEADERSHIP ORGANIZATION - Executive Director / President

May 2014 – May 2015

- Educated college freshman to plan events such as Project Linus, where 100+ students made blankets for local homeless shelter

ADVISORY COUNCIL FOR DEAN OF ENGINEERING – BME Representative

August 2014 – May 2015

- One of six students to meet bi-monthly with the Dean of Engineering to examine issues within the Engineering School

ATLANTA MISSION HOMELESS SHELTER – Service Leader

November 2014 – November 2015

- Initiated 7 weekly trips for over 50 people to serve breakfast at local homeless shelter, averaging 45 hours per member in 2015

PROFESSIONAL SKILLS / ACHIEVEMENTS

Software Skills:

Proficient: Java, C, C#, MATLAB, SolidWorks

Relevant Courses:

Novice-Moderate: Python, Bash, Go, Swift 3 for iOS, HTML/CSS, JavaScript, JavaFX, JUnit, R

Data Structures and Algorithms, Computer Organization, Machine Learning, Digital Design Lab, Computer Systems, Networking, Databases

Scholarships:

National Merit Scholar, National AP Scholar, Sanofi Scholarship Recipient