UNIVERSITY OF LOUISVILLE
J.B. SPEED SCHOOL OF ENGINEERING

Aaron Fox

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OBJECTIVE

Second Computer Engineering/Science Co-op Position — January 2 – May 4, 2018

EDUCATION

Bachelor of Science in Computer Engineering/Computer Science — Expected May 2020
Master of Engineering in Computer Engineering/Computer Science — Expected May 2021
J.B. Speed School of Engineering, University of Louisville, Louisville, Kentucky — **GPA 3.957/4.0**
Responsible for 100% of tuition — Hours Completed: 90

High School Diploma — May 2016
Randall K. Cooper High School, Union, Kentucky — **GPA 4.6/4.0**

SKILLS/COURSEWORK

Technical Skills/Relevant Coursework

- C, C++
- Web Development – Node JS
- Java
- MongoDB
- C#, Unity
- Python
- SQL
- Heroku
- MATLAB
- Selenium
- TensorFlow/Keras
- Android Development
- VIM/IntelliJ/Visual Studio
- Embedded Systems
- JSON/XML

APPLIED EXPERIENCE

Course/Volunteer Projects:
Global Mamas Volunteer: Volunteered in Ghana for an NGO and helped create and update databases for the NGO's HR system using SQL and C#.
C/C++: Interfaced Arduino circuitry and code with a self-constructed windmill to perform calculations and display output to LCDs. (See www.github.com/aaronfox/ENGR-111-Arduino-Windmill-Display.)
Independent Projects:
Personal Website and Blog. Used MongoDB, ExpressJS and NodeJS. (See www.aaronfox.me)
Unity Game Development: Created a 3D shooting game with intelligent AI enemies.
Reflection: Puzzle game created using Unity2D. (see www.github.com/aaronfox/Reflection)
Redbird Robotics: Developed on drones using the Robot Operating System library (ROS) for flight control and sub team integration as team captain of our school's robotics team.
Hackathons:
Hack The Hill (WKU): Placed third by creating a bot that directly contacts and replies to representatives and senators, advocating for Net Neutrality. (see www.github.com/aaronfox/Net-Neutrality-Bot)
VandyHacks (Vanderbilt University): Created a Virtual Reality escape room game using the Unity Gaming Engine for Oculus Rift, making sure to include plenty of memes.
RevolutionUC (University of Cincinnati): Created a fan hub based off the podcast *Hello Internet*, which included games such as "CGP Grey Flappy Bird" and "Podcast Bingo." (see www.hellointernetbingo.com.)
CatHacks 3 (University of Kentucky): Competed in the Gatton Fintech Challenge and created a web app called "Decentral," a micro-lending loans prototype. (see www.github.com/aaronfox/Decentral.)

WORK EXPERIENCE

Johns Hopkins Applied Physics Laboratory — May 2018 - June 2018
Technical Aide Intern – 40 hours/week — Laurel, MD

- Researched and programmed neural networks and deep learning using TensorFlow and Keras.
- Performed experimental infrared analysis using MATLAB.
- Worked and developed on an embedded BeagleBone system.

Great American Insurance Company — June 2016 - August 2016
DevOps Intern – 40 hours/week — Cincinnati, OH

- Developed service to improve Health Dashboard UI for code complexity using Java Code Coverage.
- Learned best development practices from sources such as Pluralsight and Safari Books Online.
- Headed a Code Kata presentation demonstrating a basic workflow with Docker Hub.

- Participated and explored activities and events such as daily scrums, sprint planning, and retrospectives using the Scaled Agile development framework.

Reach Ambassador August 2017 - Present
General School Ambassador Louisville, KY

- Mentoring seventy first year CECS students and guiding them through their first year of college.

ACTIVITIES/HONORS

Co-Captain and Technology Manager, **Redbird Robotics**, June 2017 – present
- Won second place in the International Aerial Robotics Competition at Georgia Tech in 2017
- Communicated with aerial robotics drone using the Robot Operating System (ROS)
- Used team version control to integrate all the sub-team's work

Louisville Makes Games!, January 2017 - Present
- Participating in workshops and meetups to learn collaborative indie game development.

Member, **Association for Computing Machinery** (ACM), August 2016 - present
- Participating in the Hacking Student Interest Group

Tau Beta Pi Engineering Honor Society, December 2017 – Present *(limited to top 1/8th of junior class)*

Brown Fellows Program, June 2016 – Present
- One of UofL's premier full scholarships which includes two world travel enrichment projects.
- Created independent project in Ghana working with an NGO to assist their SQL database needs.

Phi Delta Theta, Active Fraternity Member

Valedictorian, Randall K. Cooper High School

Freshman LEAD, August 2016 – June 2017
- Engaged in community events and developed leadership skills.
- Initiated and carried out a Clinton Global Initiative Project with my team through Uspiritus.

Kentucky Governor's Scholar Program Alumnus

Team Captain, High School Baseball and Basketball Teams, Cooper High School, May 2015 – May 2016