Filip Mazurek

www.filipmazurek.com | 304 276-9422 | filip.mazurek@duke.edu
231 Palisades Dr. Morgantown, WV 26508

EDUCATION
Duke University, Durham, NC   Expected May 2018
Bachelor of Science in Computer Science
GPA: 3.74/4.00

TECHNICAL SKILLS
Programming Languages
Java, Python, C, Scheme (Lisp), C++, HTML, CSS, Assembly
Software
MATLAB, PostgreSQL, Autodesk Inventor, SWIG, Blender, SketchUp, LaTeX, Logisim
Hardware
Arduino, Photon, Raspberry Pi, breadboard prototyping, MakerBot & Lulzbot 3D Printer use
Methodologies
Agile software development, Test-driven development, good git practices

WORK EXPERIENCE
Laboratory Imaging Technician, *Nightingale Lab, Duke University*, Durham, NC.   January 2016 (current)
Principal Investigator Kathryn R. Nightingale, Associate Professor
- Goal: to achieve faster image processing of 3-D imaged prostate scans
- Roles: Collaborate using Linux systems and The Visualization Toolkit to expedite image processing (ongoing); use 3D printing to produce reliable transducer holders.

Student Engineering Technician, *CDC NIOSH,* Morgantown, WV   May–August 2015
Supervisor Jeffrey S. Reynolds, Senior Electrical Engineer
- Goal: to discover whether it is feasible to predict silicosis in rats using passive breathing data.
- Roles: Classified rat passive breathing data using MATLAB machine learning to discover trends; designed a graphical user interface in MATLAB to better assist researchers in screening cough data.

PROJECTS
Android Application: Through my CS408 class, I am part of a team that is developing an Android application for a client, the local startup Vëndr. Deployment anticipated December 2016.
Web Development: Part of a training program through the Duke MakerSpace, I am creating a website that will allow users to upload and modify their images. Deployment anticipated November 2016.

LEADERSHIP & COMMUNITY INVOLVEMENT
Makers Club Executive Board, *Duke University,* Durham, NC   September 2016 (current)
- Instruct fellow students in 3D modeling, 3D printing, and using hardware such as Arduino and Photon.
Teaching Assistant, *Duke University,* Durham, NC   August 2015–December 2015
- Spent 9 hours each week in assisting student learning and lab grading for Engineering 103L.
Duke Hackathon Participant, *Duke University,* Durham, NC   November 2014
- Worked with a partner to develop a program to analyze Twitter syntax using IBM's computing system.
Project Change Participant, *Duke University,* Durham, NC   August 2014
- Evoked change in the Durham area through the Kenan Institute for Ethics by improving the livelihoods of former drug addicts at the TROSA rehabilitation facility.

RELEVANT COURSEWORK

CS201: Data Structures & Algorithms	CS230: Discrete Math in Computer Science
CS250: Computer Architecture	CS316: Introduction to Database Systems
CS308: Software Design/Implementation	CS408: Delivering Software
BME590: Medical Device Software Design	ECE280: Intro Signals & Systems (Signal Processing)