Matthew Ruiters

424 Winter Walk Dr Gaithersburg, MD 20878
Phone: 240-620-2674
Email: mcr5fh@virginia.edu
Website: http://people.virginia.edu/~mcr5fh/

Education

University of Virginia (UVA)- School of Applied Science and Engineering	Charlottesville, VA

- *Bachelor of Science in Computer Engineering* — May 2017
- **Cumulative GPA: 3.28/4.00**
- **Programming Languages/Frameworks: Java, C++ in Linux/Unix environments, C#, C in embedded systems, Python, Matlab, HTML, JS, x86 Intel, Django, git version control, Maven, Spring**
- **Environments: Eclipse, Visual Studio, Mathcad, Microsoft Office, Logisim, Multisim, NI Virtual Bench**

Relevant Work Experience

Citi Institutional Clients Group – Summer Technology Analyst, *Credit eTtrading*   Summer 2016

- Created a pipeline to channel live Thomson Reuters Trace data into a data warehouse. This live feed replaced a batch system that provided Trace data, enabling the business to make more accurate and timely data driven decisions.

Research Assistant for J. Stankovic PhD, *Computer Science Department (UVA)*   Spring 2016

- Co-author of "Detection of Runtime Conflicts among Services in Smart Cities"
  - Addressed the service conflicts that may arise in current smart cites, as well as hypothetical services that would be present in future cities
- Implemented and extended DepSys: Dependency Aware Integration of Cyber-physical Systems for Smart Homes. Developed a platform to facilitate the creation of smart home apps for non-expert users.   Summer 2015

Research Assistant for H. Wang PhD, *Computer Science Department (UVA)*   Fall 2015

- Design and implementation of a Google Chrome Extension to personalize and enhance the user's internet experience

Related Projects and Coursework

ECE 3439 – Introduction to Embedded Computing   Spring 2016

- Designed an ECG circuit that interfaced with an iPhone app via Bluetooth transmission by using an MSP430 microcontroller and BLE 4.0 module

CS 3240 – Advanced Software Development   Fall 2015

- Used agile methodologies to develop a web application that allowed users to upload and access reports. The app was developed using the Django framework and managed with git.

SYS 4048 - Introduction to Electromechanical Systems   Spring 2015

- Developed a line following robot as well as a climate controlled greenhouse
  - Used microcontrollers, numerical simulation, and servo motors. Managed data using mySQL.

Extracurricular Activities

Club Rugby, *Vice President*   Fall 2015-Fall 2016
— Involved in organizing the league structure and responsible for organizing the game schedule and team travel logistics

Sigma Chi, *Social Chair*   Spring 2016-Fall 2016
– Responsible for handling a budget and organizing social events for the fraternity

OneGoal, *Website developer*   Fall 2015-Present
— Philanthropic organization that works to promote healthy, athletic behavior by collecting used sporting equipment and sending it to impoverished countries

Center for Diversity in Engineering, *Tutor*   Fall 2014-Spring2015
— Tutored 1000 and 2000 level Computer Science students

Institute of Electrical and Electronics Engineers (IEEE), *Active Member*   Fall 2014-Present