Ian Marshall

19 Charlotte St, Ridgewood (NYC), NY, 11385| (603)-208-9771 | ian.nicholas.marshall@gmail.com

Summary:
Detail oriented engineer with multidisciplinary career and educational background in computer science, electrical and computer systems engineering. Looking for a full time software development role in New York City.

Education:
Rensselaer Polytechnic Institute – Class of 2016:

Bachelor of Science – Computer & Systems Engineering, Electrical Engineering (GPA: 3.20)

Experience:
Engineer at GLOBALFOUNDRIES – July 2016 – Present

Module Qlikview Report Developer
- Extensive use of Qlikview and SQL for development/maintenance of CMP module "status board" used in daily operations meeting to prioritize work for engineers and technicians

Fault Detection & Classification Champion
- Designed control charts for very large, real-time data sets on thousands of critical equipment sensors
- Leveraged statistical process control best practices to reduce mean time to detect equipment performance issues.

Equipment Owner – CMP (Chemical Mechanical Planarization)
- Managed all technical aspects of equipment, optimized tool performance and engaged with 24/7 manufacturing team to maximize uptime, throughput and process KPIs
- Owned equipment install, chemical hookups, wiring of chemical demand signal relay boxes, coordinated with contractors and vendors to keep tight install schedule to meet factory capacity constraints

Equipment Management Internship at GLOBALFOUNDRIES – June 2015 – May 2016
- Maintained and developed a Visual Basic .NET web application with a SQL Server Database used for parts tracking
- Used Excel VBA macros to create reports and data visualizations for engineering teams

Web Scraping Internship at Maponics LLC – June 2014 – August 2014
- Developed robust Python web scraping programs for school attendance boundary project
- Collaborated with GIS team to automate pipeline of scraped address data into useable ShapeFiles for GIS software

Projects:
- Senior Capstone Project (General Electric): Utilized image processing concepts and caffe deep learning framework to build a prototype smartphone app for part identification
- Research Paper with Dr. Mohamed Boudjelkha on Classifying Quadratic Forms using Symmetric Matrices
- Computer Graphics Term Project: Developed an interactive robot arm simulator for the Myo Gesture Controlled Armband using a WebGL interface
- Analysis of New York State Campaign Finance Data: AWS – Elastic Beanstalk / RDS Website
  http://nyscf-env6.pv6ur2d8nb.us-east-1.elasticbeanstalk.com/nyscf_home

Programming Languages & Development Experience:
- Programming Languages (greatest to least experience): Python/Django, C++, Java, MatLab, R, JavaScript, Visual Basic, C
- Database Experience: MySQL, SQL Server
- Other Skills: Linux, Git, AWS

Leadership & Community:
- Theta Chapter of the Chi Phi Fraternity – Held multiple leadership roles including historian, new member educator and treasurer. Was responsible for managing fraternity budget of over $200,000 annually.
- Over 200 hours of community service throughout college and high school. Specific projects include: St. Baldrick's, Relay for Life, and Adopt a Highway.