Bereket Abraham

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Education

Carnegie Mellon University **Pittsburgh, PA**
Master of Science, Mechanical Engineering May 2017
Concentration: Controls and Automation
Selected Coursework: Nonlinear Controls, Mechatronics, Computer Vision

Princeton University **Princeton, NJ**
Bachelor of Science in Engineering, Mechanical and Aerospace Engineering June 2013
Certificates in Applied and Computational Mathematics, Applications in Computing, and Robotics
Independent Projects: 3D Volumetric Display Technology, Simulation of Accelerating Fluid Flow

Work Experience

AppNexus, Inc. **New York, NY**
Software Engineer, Web Services January 2015 – January 2016
- Implemented reporting features using C in core real-time web application to enhance ad buying product.
- Built out multiple web based API services in Java and PHP to decouple integration between systems.
- Built and maintained third party integrations with partner ad exchanges to unlock client spend.

Associate Technical Consultant, Global Services July 2013 – December 2014
- Consulted with employees, partners and clients throughout the online advertising industry on how to best utilize AppNexus technology and resources.
- Administered databases and servers, supported legacy code, developed best practices, integrated with third-party systems, and gathered requirements for the Services department.
- Ran alpha and beta test phases with clients to help the development of a new API features.
- Advised clients on the AppNexus data warehouse, reviewed different technologies for data storage, and wrote ETL scripts to help export certain datasets.

Research Experience

Florida State University **Tallahassee, FL**
Research Intern, Computational Fluids Laboratory June 2012 – March 2013
- Utilized CFD Fortran code in order to simulate low speed, unsteady flow around a cylinder, which has applications in small-scale flight, such as the bio-inspired flow of birds and fish.
- Began water tank experiments of accelerating cylinders using laser imagery (DPIV) to verify simulation results.
- Presented findings at the Emerging Researchers National Conference in Washington, DC.

Skills

Programming Languages: C, Java, Python, JavaScript, PHP, HTML, MySQL, Bash, MATLAB
Application Software: Pro-Engineering, OpenFOAM, Blender, LaTex, Git, SVN, JIRA, Salesforce
Skills: server administration, soldering, welding (novice), machining (novice)

Activities

Organizations: CMU Robotics Club (2016), Toastmasters (2013 – 2015), Inner City Outings (2015), Engineers Without Borders (2009 – 2011)
Memberships: National Society of Black Engineers