Kalyan Madanapalli

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Education

Virginia Polytechnic Institute and State University

- Major: Computer Science (BS)
- Cumulative GPA: 3.62
- Expected Graduation Date: May 2018

Skills

- Languages: Java (proficient), C (proficient), Python (proficient), Perl (prior experience), HTML (prior experience)
- Simulation software: ROS, Gazebo, Rviz, MATLAB, Simulink, PreScan
- Mobile App Development: Android Studio, Google Firebase, Google Cloud Messaging
- Integration software: Jenkins, Maven, Puppet
- Other software: Request Tracker, OpenStack, Splunk, Jira, Gerrit, PostgreSQL, OpenCV, VMD, Pymol, Latex, Juptyer Notebook

Work Experience

Software Developer at Solers, Inc
- Will work as a full-time software developer at Solers, Inc post-graduation

June 2018

Co-op at Solers, Inc
- Worked on Satellite Ground Systems under Systems side
- Added features such as workflows for Request Tracker (virtual help desk)
- Created a puppet module to deploy a fully configured Request Tracker to an instance (in Open Stack)
- Comfortable with Agile System Development Life Cycle (used Jira and Gerrit)

May 2017 – December 2017

CS Molecular Dynamics Research
- Worked with visual molecular programs like VMD, Pymol
- Created a short molecular movie of the interactions of a specific nucleosome
- Developed a VMD plugin that displays additional information regarding the residue selected in VMD

May 2017 – August 2017

CS 2505 Teaching Assistant
- Helped students in the course CS 2505 with homework and relevant coursework
- Held weekly office hours where 4-8 students would come for help

January 2017 – May 2017

Extracurricular

AutoDrive Challenge
- 3 year competition to develop an autonomous vehicle to navigate an urban driving course
- Member of the team under Perception and Simulation division
- Under Perception, developed a camera-based stop sign detection
- Under Simulation, worked with modeling sensors like LiDAR

August 2017 – May 2018

TA Tips
- Developed mobile android app called “TA Tips” (personal project with 3 other friends)
- Used for students that need tutoring from other students

May 2017 – August 2017

Programming Team
- Weekly Competitions composing of over one-hundred participants
- Improved problem solving skills by tackling challenging problems

August 2016 – May 2018