Kalyan Madanapalli

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Education

Georgia Institute of Technology

• Program: Master of Science in Computer Science

• Specialization: Machine Learning

Virginia Polytechnic Institute and State University

Major: Computer Science (BS)Cumulative GPA: 3.62 / 4

Skills

- Languages:
 - o Java (proficient), Python (proficient), C (familiar), C++ (prior experience), Perl (prior experience), JavaScript (prior experience), HTML (prior experience)
- Software, Frameworks, and Tools:
 - PostgreSQL, Redis, Spring, Hibernate, REST, Storm, OpenStack, OpenCV, TensorFlow, MATLAB, ROS, PreScan, Android
 Studio, Google Firebase, Jenkins, Maven, Puppet, Splunk, Camel, Kafka, JIRA, Git

Work Experience

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Software Developer at Solers, Inc	 Working with processing satellite and sensor data in the backend Worked with astrophysics algorithms such as propagating satellite orbits in time Created data models with Hibernate and saved into Postgres database Wrote REST calls to retrieve information from database Worked with image processing pipeline for sensor data 	June 2018 to Present
Co-op at Solers, Inc	 Added features such as user roles and workflows for Request Tracker (virtual help desk application) Created a puppet module to deploy a fully configured Request Tracker to cloud instances (in Open Stack) Created and packaged a Splunk app with all preexisting dashboards 	Summer, Fall 2017
CS Molecular Dynamics Research	 Worked with visual molecular software 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 	Summer 2017
CS 2505 Teaching Assistant	 Helped students in the course CS 2505 (intro to C/Unix) with homework and relevant coursework Held weekly office hours where 4-8 students would come for help 	Spring 2017
Projects		
Face Detection with Neural Network	 Created and trained a convolutional neural network to classify faces given a 128x128 pixel image with a 2000+ image dataset Written in python using TensorFlow library 	Summer 2018
AutoDrive Challenge	 3 year competition to develop an autonomous vehicle to navigate an urban driving course Developed a camera-based stop sign detection node in ROS Worked with modeling sensors like LiDar in PreScan 	Fall 2017, Spring 2018
TA Tips	Mobile android app meant to connect students with students for tutoring each other	Spring, Summer 2017