Kalyan Madanapalli

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Education

Georgia Institute of Technology

- Program: Master of Science in Computer Science (in-progress, remote, part-time)
- Specialization: Machine Learning

Virginia Polytechnic Institute and State University

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

Skills

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

Work Experience

Solers, Inc (Software Developer)	• Worked with processing satellite and sensor data in the backend • 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 – June 2019
Solers, Inc (Software Co-op)	• 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	May 2017 – December 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	June 2017 – August 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	January 2017 – May 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
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
TA Tips	• Mobile android app meant to connect students with students for tutoring each other