

Kalyan Madanapalli

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Education

Georgia Institute of Technology

- Program: Master of Science in Computer Science (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:**
 - 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

Software Developer at Solers, Inc	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• Mobile android app meant to connect students with students for tutoring each other	Spring, Summer 2017