Kalyan Madanapalli

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Education

Virginia Polytechnic Institute and State University

• Major: Computer Science (BS)

Skills

- Languages:
 - Java (proficient), Python (familiar), C (prior experience), C++ (prior experience)
- Software, Frameworks, and Technologies:
 - o AWS technologies (Lambda, DynamoDB, SQS, etc), Spring, Hibernate, PostgreSQL, Redis, Maven, Kafka, Git

Work Experience

Work Experience		
Amazon, Inc (SDE II)	 Building the central data lake for all Amazon's business data that rapidly grows in the petabyte scale Wrote bulk data transfer services used by tens of thousands of data scientists, engineers, and analysts within Amazon Maintain a data subscription service with over 200,000 subscriptions across 25,000 datasets within Amazon Built data synchronization service that executes roughly 300,000 jobs daily syncing approximately 1500TB of data volume Reduced initial data sync latency up to 95% for compacted datasets Implemented customer data deletion within our core service in compliance with GDPR and other privacy laws Utilized various AWS technologies like S3, Redshift, Glue, and Lambda to efficiently move data around at a large scale 	July 2019 - Present
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 preexisting dashboards 	May 2017 – December 2017
Undergrad CS Molecular Dynamics Research	 Worked with visual software like VMD (visual molecular dynamics), 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
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	