Sandeep Polisetty

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Education

University of Massachusetts Amherst Aug 2020 – Present
Ph.D., Computer Science *Amherst, MA*

University of Massachusetts Amherst Aug 2016 – May 2020
M.S, Computer Science *Amherst, MA*

Indian Institute of Technology Sep 2008 – May 2013
B.Tech, M.Tech, Naval Architecture *Kharagpur, India*

Areas of interest

My interest lies in building frameworks to support efficient and scalable machine learning. In the past, I have worked on important frameworks such as DGL (Deep Graph Library), pytorch and TVM to efficiently use underlying hardware and also at algorithm level.

Selected Publications

GSplit: Scaling graph neural network training on large graphs via split-parallelism under submission
S Polisetty, J Liu, K Falus, YR Fung, SH Lim, H Guan, M Serafini

Accelerating graph sampling for graph machine learning using GPUs Eurosys
A Jangda, S Polisetty, A Guha, M Serafini *2021*

Graphmini: Accelerating graph pattern matching using auxiliary graphs PACT
J Liu, S Polisetty, H Guan, M Serafini *2023*

Work Experience

Intel May 2020 – August 2020
AI Frameworks Intern *Santa Clara, CA*

- Developed a service to automatically perform a set of unit tests daily on a product in development in order to decrease time needed for team members to identify and fix bugs/issues.

Reservoir Labs (acquired by Qualcomm) May 2019 – August 2019
Research Engineer Intern *Remote*

- Assisted in development of the front end of a mobile application for iOS/Android using Dart and the Flutter framework.

Research Experience

Scaling graph machine learning January 2021

- Developed an automatic bot using Python and Google Cloud Console to register myself for a timeslot at my school gym.
- Implemented Selenium to create an instance of Chrome in order to interact with the correct elements of the web page.
- Created a Linux virtual machine to run on Google Cloud so that the program is able to run everyday from the cloud.
- Used Cron to schedule the program to execute automatically at 11 AM every morning so a reservation is made for me.

Large scale graph machine learning November 2020

- Created an Android application using Java and Android Studio to calculate ticket prices for trips to museums in NYC.
- Processed user inputted information in the back-end of the app to return a subtotal price based on the tickets selected.
- Utilized the layout editor to create a UI for the application in order to allow different scenes to interact with each other.

Technical Skills

Languages: Python, Java, C, HTML/CSS, JavaScript, SQL
Developer Tools: VS Code, Eclipse, Google Cloud Platform, Android Studio
Technologies/Frameworks: Linux, Jenkins, GitHub, JUnit, WordPress