

Ravi Teja Mullapudi

EMAIL [raviteja.mullapudi@gmail](mailto:raviteja.mullapudi@gmail.com) **WEB** <https://rmullapudi.bitbucket.io/> **PHONE** +1 412 779 9931

I am interested in building algorithms, models and systems for efficiently training and deploying machine learning models. I'm currently looking for full-time positions in industry.

EDUCATION

Carnegie Mellon University · Ph.D. in Computer Science Summer 2021 (expected)

Thesis Dynamic Model Specialization for Efficient Inference, Training and Supervision

Advisers Deva Ramanan, Kayvon Fatahalian

Indian Institute of Science · Masters in Computer Science Spring 2015

Thesis PolyMage: Automatic Optimization for Image Processing Pipelines

Adviser Uday Bondhugula

International Institute of Information Technology · Bachelors in Technology Spring 2008

WORK EXPERIENCE

Student Researcher, **Google** Jan 2019 - Dec 2020

Ph.D. Research Intern, **Google** Summer 2016, 2017

Senior Systems Software Engineer, **Nvidia** Feb 2010 - June 2012

Software Development Engineer, **Synfora** Jun 2008 - Feb 2010

PUBLICATIONS

Low-Shot Validation: Active Importance Sampling for Estimating Classifier Performance on Rare Categories **[In submission]**

Fait Poms, Vishnu Sarukkai, **Ravi Teja Mullapudi**, Nimit Sohoni, William R. Mark, Deva Ramanan, Kayvon Fatahalian

Learning Rare Category Classifiers on a Tight Labeling Budget **[In submission]**

Ravi Teja Mullapudi, Fait Poms, William R. Mark, Deva Ramanan, Kayvon Fatahalian

Background Splitting: Finding Rare Classes in a Sea of Background **[CVPR 2021]**

Ravi Teja Mullapudi*, Fait Poms*, William R. Mark, Deva Ramanan, Kayvon Fatahalian

Learning to Move with Affordance Maps **[ICLR 2020]**

William Qi, **Ravi Teja Mullapudi**, Saurabh Gupta, Deva Ramanan

Online model distillation for efficient video inference **[ICCV 2019]**

Ravi Teja Mullapudi, Steven Chen, Keyi Zhang, Deva Ramanan, Kayvon Fatahalian

Hydranets: Specialized dynamic architectures for efficient inference **[CVPR 2018]**

Ravi Teja Mullapudi, William R Mark, Noam Shazeer, Kayvon Fatahalian

Automatically scheduling halide image processing pipelines **[SIGGRAPH 2016]**

Ravi Teja Mullapudi, Andrew Adams, Dillon Sharlet, Jonathan Ragan-Kelley, Kayvon Fatahalian

Compiling affine loop nests for dynamic scheduling **[TOPC 2016]**

Roshan Dathathri, **Ravi Teja Mullapudi**, Uday Bondhugula

Polymage: Automatic optimization for image processing pipelines **[ASPLOS 2015]**

Ravi Teja Mullapudi, Vinay Vasista, Uday Bondhugula

Tiling for dynamic scheduling **[IMPACT 2014]**

Ravi Teja Mullapudi, Uday Bondhugula

SERVICE

Reviewer CVPR, ICCV, AAAI, SIGGRAPH, PLDI

Departmental Student Member, Ph.D. admissions committee