Samvit Jain

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EXPERIENCE

Amazon Web Services (AWS), Applied Scientist (Seattle, WA)   Jul 2019 – Present
- Machine Learning Scientist on AWS's Computer Vision Science team (Amazon Rekognition).
- Developing computer vision models for new industry vertical (re:Invent 2020). Delivered models for low-shot, domain-specific object detection. Current focus: active learning systems for anomaly detection.

UC Berkeley, Graduate Student Researcher (Berkeley, CA)   Aug 2017 – May 2019
- Developed techniques to accelerate semantic segmentation on high-resolution video (CVPR '19, ECCV '18 W).

Microsoft Research, Research Intern (Redmond, WA)   May 2018 – Jan 2019
- Designed efficient, cross-camera video analytics system, ReXCam (HotMobile '19, SEC '20).

Databricks, Software Engineering Intern (San Francisco, CA)   May 2016 – Aug 2016
- Built full-text search backend (Solr) as a multi-tenant microservice in Kubernetes, shipping to 1000s of live users.

LinkMeUp, Founder and iOS Engineer (Redmond, WA)   May 2014 – Aug 2015
- Developed video link messaging app for iOS and Android. Reached over 2000 users in 80+ countries to date.
- Roles: Built iOS app (~12,000 LoC), backend, web presence. Hired first employee. PM for Android app.

EDUCATION

University of California, Berkeley, M.S. Computer Science   Aug 2017 – May 2019
- Fully-funded research Master's program in machine learning. Advised by Prof. Joseph Gonzalez in the RISE Lab.
- Published **three first-author papers** (incl. **CVPR '19 oral**) in computer vision and video analytics. *GPA: 4.0/4.0*.

Princeton University, B.S.E. Computer Science   Sep 2013 – Jun 2017
- Graduated *summa cum laude*, Phi Beta Kappa, and Tau Beta Pi (highest CS department and university honors).
- CS coursework spanning systems, AI, and applications. Published research. *GPA: 3.93/4.0 (overall), 4.0 (major).*

SELECT PUBLICATIONS

Samvit Jain, Xin Wang, and Joseph E. Gonzalez. *Accel: A Corrective Fusion Network for Efficient Semantic Segmentation on Video*. In **CVPR 2019 (oral)**, Long Beach, CA. [pdf]   (*5.6% selection rate*)

Samvit Jain, Ganesh Ananthanarayanan, Junchen Jiang, Yuanchao Shu, and Joseph E. Gonzalez. *Scaling Video Analytics to Large Camera Deployments*. In **HotMobile 2019**, Santa Cruz, CA. [pdf]

HONORS

Research: Accepted to CS PhD programs at Stanford, MIT, Berkeley (2019);   NSF GRF Honorable Mention (2019)

Mathematics: Top 200 in the U.S. (AMC 12 contest, 2012)   **History:** 1st Place in the U.S. (NHD contest, 2009)

SKILLS

Languages	Python, Java, C, Objective-C	(Familiar) Go, OCaml, Scala, Javascript
Tools/Technologies	git, Linux, PyTorch, TensorFlow, MXNet, AWS, Docker, Kubernetes, MongoDB	