

Samvit Jain

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EXPERIENCE

Amazon Web Services (AWS), Machine Learning Scientist (Seattle, WA) Jul 2019 – Present

- Machine learning scientist on AWS's Computer Vision Science team (AWS Rekognition).
- Co-developed [Amazon Lookout](#) (2020), a new AWS service for anomaly detection in manufacturing. Built active learning system to support interactive labelling. Delivered models for low-shot domain-specific object detection.
- Demoed results to and onboarded multiple large (\$2B+ revenue) industrial partners (pharma, furniture, food).

Microsoft Research, Research Intern (Redmond, WA) May 2018 – Jan 2019

- Focus: video analytics. Designed efficient cross-camera object tracking system, ReXCam (HotMobile '19, SEC '20).

UC Berkeley, Graduate Student Researcher (Berkeley, CA) Aug 2017 – May 2019

- Designed techniques to accelerate semantic segmentation on high-resolution video (CVPR '19 oral, ECCV '18 W).

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-CEO 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. PM for Android app. Managed hiring and marketing.

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 (full list at: www.samvitjain.com)

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](#)] [[video](#)] (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](#)] [[video](#)]

HONORS

CS: Accepted to CS PhD programs at Stanford, Berkeley, MIT (2019) **Math:** Top 200 in the U.S. (AMC 12) (2012)

Writing: Launched tech [blog](#) (top 15 on HackerNews) (2017 -) **History:** 1st Place in the U.S. (NHD contest) (2009)

SKILLS

Software - Languages

Python, Java, C, Objective-C

(Familiar) Go, OCaml, Scala, Javascript

Software - Tools

git, Linux, PyTorch, Tensorflow, AWS, Docker, Kubernetes, MongoDB

General

Project management; Strong written and oral communication skills [[1](#), [2](#)]