

# Samvit Jain

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## EXPERIENCE

**Amazon Web Services (AWS)**, Applied Scientist (Seattle, WA) Jul 2019 – Present

- Co-developed and launched [Amazon Lookout](#) (2020), a new AWS service for identifying defects and anomalies in images. Role: machine learning scientist on the AWS AI - Computer Vision services team.
- Contributions: built nearest neighbor-based anomaly detection model, active learning system, object detector. Demoed work to several large industrial partners (NuSkin, Herman Miller, Tyson Foods).

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

- Focus: video analytics. Designed an efficient cross-camera object tracking system (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-CEO and iOS Engineer (Sammamish, 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 & managed Android engineer. Led marketing.

## EDUCATION

**University of California, Berkeley**, M.S. Computer Science Aug 2017 – May 2019

- Fully-funded research Master's program. Advised by Prof. Joseph Gonzalez in the [RISE Lab](#) (focus: ML systems).
- Published *four first-author papers* (incl. CVPR '19 oral) in computer vision and machine learning. 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 departmental and university honors).
- Classes spanning computer science (systems focus), economics, physics. GPA: 3.93/4.0 (overall), 4.0 (major).

## SELECT PUBLICATIONS

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

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

## HONORS

**Research:** Accepted to Computer Science PhD programs at Stanford, MIT, Berkeley, and CMU (2020).

## SKILLS

**General** Excellent written and oral communication skills [blog: [1](#), talk: [2](#)]

**Software** Languages: Java, Python, C Tools: git, Linux, PyTorch, AWS, Kubernetes, MongoDB