Samvit Jain

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EXPERIENCE

Amazon Web Services (AWS), Applied ML Scientist (Seattle, WA)   Jul 2019 – Present
- Co-developed Amazon Lookout (2020), a new AWS service for identifying defects and anomalies in images.
- 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 machine learning and systems.   *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).
- Broad computer science coursework (17 classes), with a focus in systems.   *GPA: 3.93/4.0 (overall), 4.0 (major).*

SELECT PUBLICATIONS

Samvit Jain, Xin Wang, Joseph E. 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

Languages	Java, Python, C, Objective-C	(Familiar) Go, OCaml, Scala
Tools	git, Linux, AWS, PyTorch	(Familiar) Docker, Kubernetes, MongoDB
General	Excellent written and oral communication skills [blog: 1, talk: 2]	