

# Tanmay Binaykiya

<https://tanmaybinaykiya.github.io>

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## EDUCATION

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M.S. Computer Science	Georgia Institute of Technology, Atlanta	GPA: 4.0/4.0	Aug 17 - Present
B.E. Computer Science	BITS Pilani, INDIA	GPA: 7.85/10.0	Aug 09 - July 15

## GRADUATE COURSES

Natural Language, Advanced Computer Vision, Artificial Intelligence, Computer Vision, Computer Graphics

## TECHNICAL SKILLS

**Languages:** Java, Python, Javascript, C

**Technologies:** AWS, Docker, Spring Boot

**Big Data Technologies:** Apache Spark, PyTorch, NumPy

## EXPERIENCE

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<b>Georgia Institute of Technology</b>	Atlanta, GA
Graduate Teaching Assistant, CS 4476 Computer Vision	Fall 2018
Graduate Teaching Assistant, CS 4510 Automata & Computability	Spring 2018

<b>Uber Technologies</b>	Palo Alto, CA
Software Engineer Intern	May 2018 - July 2018
- Prototyped a HMM's emission probability-based algorithm to detect Map Errors using drivers' GPS traces	
- Developed a reliability framework for Apache Spark based map metrics computation pipeline	

<b>BlueJeans Networks</b>	Bangalore, INDIA
Senior Software Engineer	June 2016 - July 2017
- Developed a Spring-Boot based software platform to facilitate deployment of existing monolith as microservices	
- Redesigned architecture resulting in a load capacity increase from 500 RPS to 100k RPS and uptime from .99 to .9999	
- Developed an AWS Lambda-based NodeJS solution to enable live streaming video conferences into RTMP entry points providing in-meeting Facebook Live broadcast capabilities achieving a time-to-market of <b>14 days</b>	

Software Engineer	Aug 2015 - May 2016
- Developed a transcoder auto provisioning system based on real-time usage patterns reducing AWS usage costs by 55%	
Software Engineer Intern	Jul 2014 - May 2015
- Developed a proof-of-concept to deploy the Primetime stack on AWS EC2 using Kubernetes	
- Developed tools for Web UI Automation and stress testing	

<b>National Aluminium Company Limited</b>	Bhubaneswar, INDIA
Software Development Intern	May 2012 - Jul 2012

<b>Ojaswi Tech</b>	Pune, INDIA
Graphic Design Intern	Jun 2011 - Aug 2011

## ACADEMIC PROJECTS

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<b>Coreference Resolution</b>	Apr 2018
Built a coreference resolution pipeline using an Attention-Based-LSTM	
<b>Sequence Labeling</b>	Mar 2018
Implemented a Part-of-Speech tagger based on Hidden Markov Model and BiLSTM - Conditional Random Field models	
<b>Scene Classification with Deep Learning</b>	Nov 2017
Built a vanilla CNN and Transfer Learning based scene classification pipeline	
<b>Face Detection</b>	Nov 2017
Built a face detection pipeline based on Dalal & Triggs method for pedestrian detection using HoG descriptor	
<b>Local Feature Matching</b>	Sep 2017
Built a local feature matching pipeline based on Harris Feature Point Detector and a SIFT-like local feature descriptor	

## AWARDS & HONORS

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<b>Quarterly Award, BlueJeans Networks</b>	July 2017
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