

# 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

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

## TECHNICAL SKILLS

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

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

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

## EXPERIENCE

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### Uber Technologies

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

### Georgia Institute of Technology

Atlanta

Graduate Teaching Assistant, CS 4510 Automata & Computability

### BlueJeans Networks

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 **14 days**

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

### National Aluminium Company Limited

Bhubaneswar, INDIA

Software Development Intern

May 2012 - Jul 2012

### Ojaswi Tech

Pune, INDIA

Graphic Design Intern

Jun 2011 - Aug 2011

## ACADEMIC PROJECTS

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### Coreference Resolution

Apr 2018

Built a coreference resolution pipeline using an Attention-Based-LSTM

### Sequence Labeling

Mar 2018

Implemented a Part-of-Speech tagger based on Hidden Markov Model and BiLSTM - Conditional Random Field models

### Scene Classification with Deep Learning

Nov 2017

Built a vanilla CNN and Transfer Learning based scene classification pipeline

### Face Detection

Nov 2017

Built a face detection pipeline based on Dalal & Triggs method for pedestrian detection using HoG descriptor

### Local Feature Matching

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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**Quarterly Award**, BlueJeans Networks

July 2017