Tanmay Binaykiya

https://tanmaybinaykiya.github.io

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Education

M.S. Computer Science	Georgia Institute of Technology, Atlanta	GPA: 4.0/4.0	Aug 17 - Dec 2018
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, Deep Learning

Technical Skills

Languages: Java, Python, Javascript, C
Technologies: AWS, Docker, Spring Boot
Data Science Technologies: Apache Spark, PyTorch, NumPy

Experience

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

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

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

Academic Projects

Coreference Resolution — Apr 2018
Built a coreference resolution pipeline using an Attention-Based-LSTM

Dependency Parser — Apr 2018
Built an arc-standard transition-based Dependency Parser

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

Scene Recognition with Bag of Words — Oct 2017
Developed a scene recognition pipeline with Bag of SIFT and linear SVM classifier

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

Quarterly Award, BlueJeans Networks — July 2017