Tanmay Binaykiya

https://tanmaybinaykiya.github.io/

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Education

Georgia Institute of Technology, Atlanta, GA — Aug 2017 - Present
Master of Science in Computer Science — GPA: 4.0/4.0

Birla Institute of Technology and Science, Pilani, India — Aug 2009 - July 2015
Bachelor of Engineering in Computer Science — GPA: 7.85/10.0

Graduate Courses

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

Technical Skills

Languages: Java, Python, Javascript, C
Technologies: AWS, Apache Spark, Docker

Experience

Uber Technologies — May 2018 - Present
Software Engineer Intern — Palo Alto, CA

MapCrunch Reliability
Developed a reliability framework for Apache Spark based map metrics computation pipeline

Catch Map Errors (CatchME)
Prototyped a Hidden Markov Model's emission probability-based algorithm to detect Map Errors using drivers' GPS traces

BlueJeans Networks — June 2016 - July 2017
Senior Software Engineer — Bangalore, INDIA

Next Generation Platform
- Developed a Spring-Boot based software platform to facilitate deployment of existing monolith as microservices
- Improved system load capacity from 500 RPS to 100k RPS and uptime from .99 to .9999

Social Media Gateway
Developed a 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**

Autoscaler Service
Developed a transcoder auto provisioning system based on real-time usage patterns reducing AWS usage costs by 55%

BlueJeans Networks — Jul 2014 - Jul 2015
Software Engineer Intern — Bangalore, INDIA
- Developed a proof-of-concept to deploy the OnVideo stack on AWS EC2 using Kubernetes
- Developed a stress testing framework to simulate peak loads

Academic Projects

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

Sequence Labeling — Mar 2018
Implemented a Part-of-Speech tagger based on Hidden Markov model and BiLSTM - Conditional Random Field models

Text Classification — Feb 2018
Implemented lyrics classifiers based on Naive Bayes, Perceptron, Logistic Regression techniques

Morse Code Recognition — Dec 2017
Implemented a Morse code recognition system through the use of Hidden Markov 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

Dead-end Isolation Game AI — Aug 2017
Developed a dead-end isolation game player based on Minimax Algorithm using Alpha-Beta pruning

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
Developed a local feature matching algorithm implementing Harris Feature Point Detector and implemented a SIFT-like algorithm for a local feature descriptor