


Nakul Camasamudram

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Availability: **May 2018**

EDUCATION

Northeastern University, Boston, MA

Jan 2016–Present

Candidate for a Master of Science in Computer Science

Expected graduation: Apr 2018

Related Coursework: Algorithms, Information Retrieval, Machine Learning, Data Mining, Computer Systems

GPA: 3.83

Visvesvaraya Technological University, Bangalore, India

Sept 2011–May 2015

Bachelor of Engineering – Telecommunication Engineering

First Class with Distinction

TECHNICAL KNOWLEDGE

Languages: Python, Java, R, C, Scala, JavaScript, Racket, Bash, HTML + CSS
Technologies: Flask, jQuery, Celery, Redis, Apache Lucene, Android, Leap Motion
Data: Hadoop, Spark, scikit-learn, TensorFlow, Keras, Weka
Cloud/DevOps: Amazon Web Services(AWS), Terraform, Packer, Docker, Gitlab CI, SumoLogic

WORK EXPERIENCE

College of Computer and Information Science, Northeastern University, Boston, MA

Sept 2017– Current

Teaching Assistant – Computer Systems

Veracode, Burlington, MA

Jan–Aug 2017

Cloud Engineering Co-op – Veracode Greenlight

- Designed a microservice architecture on AWS for Veracode Greenlight, a static code analysis security service.
- Built a fast, scalable service that logs user activity using AWS Lambda, SumoLogic, Redis and DynamoDB.
- Achieved scalability from 1k scans/month to 10k scans/day, and reduced infrastructure costs by 50% by improving algorithmic efficiency and memory usage.
- Extended Gitlab CI pipeline to transition from monthly to multiple automated “per-feature” deployments
- Developed a RESTful API using Amazon API Gateway, AWS Lambda to facilitate Greenlight’ integration into CI/CD pipelines.

CodeSpeak Solutions, Bangalore, India

Aug–Nov 2015

Software Engineer

- Designed and developed hyperlocal e-commerce platform with an Android front-end and Parse backend, as a one-person department. Deployed app on Play store, and helped secure around \$300,000 in funding for the client.

SELECTED PROJECTS

Recommender System for Instacart, Northeastern University, Boston, MA

Oct–Dec 2017

- Built Collaborative Filtering systems to suggest recommendations to Instacart users. Approaches include TF-IDF-based neighborhood methods and matrix factorization methods specific to implicit feedback data.

Airbnb Listing-Price Prediction, Northeastern University, Boston, MA

Oct–Dec 2017

- Designed models to predict prices for Airbnb listings in Boston by exploring penalized regression, Generalized Additive Models(GAMs), regression trees and neural networks.

TripAdvisor Challenge, Brown Hackathon ‘17, Providence, RI

March 2017

- Modeled whether a purchase would be made from TripAdvisor using random forests implemented on Hadoop MapReduce, with each tree built on a separate worker machine.

Machiavel – AI Plunderphonic Music Generator, HackNEU’17, Boston, MA

Feb 2017

- Generate music collages inspired by “The Avalanches” from a folder of audio files by randomly selecting a song to build a mix around.
- Utilized a Markov chain model to select other appropriate songs from that folder – tempo-stretching and pitch-shifting them as needed – to slice into samples, which were then assembled into a multi-track mix.

Computer Systems, Northeastern University, Boston, MA

Sept–Dec 2016

- Implemented a highly consistent distributed key-value store that allows dynamic membership changes.
- Designed Distributed Shared Memory(DSM) system in userspace library for Linux applications, modeled after the IVY DSM.