

# **ADITYA GANESH NARAYAN**

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Year	Degree/Exam	Institute	CGPA/Marks
2013-18	M.TECH Electonics and Elec. Communication	IIT Kharagpur	8.04 / 10
2011-13	Maharashtra State Board HSC	Thakur Vidya Mandir Junior College	88.17%
2011	ICSE	Ryan International School Goregaon	92%

### **COURSEWORK INFORMATION**

Data Structures and Algorithms | Object Oriented System Design | Cryptography | Data Analytics | Digital Image Processing | Internet Architectures and Protocols | Machine Intelligence and Expert Systems | Pattern Recognition & Image Understanding | Computer Communication and Networking

#### **INTERNSHIPS**

AMAZON INDIA Account Auditing for 3P sellers May-July 2017

- Designed and implemented an account auditing infrastructure for third-party sellers on Amazon's Seller Central platform
- Implemented a daemon to periodically create and deprecate DynamoDB tables for time-series data to ensure optimal performance
- Offered a Pre-Placement job offer for impressive performance

# AMAZON INDIA Bulk SMS campaigns for MoA accounts May-July 2016

- Created an interface for the business teams to schedule bulk SMS marketing campaigns
- Implemented a multi-threaded program to simultaneously dispatch requests to other internal services
- Deployed the interface using AWS services to invoke the program at regular intervals

#### AASAANJOBS End-to-end testing framework June-July 2015

- Designed and implemented a complete end-to-end testing framework on Selenium for aasaanjobs.com
- The framework was deployed to the organization's stack to reduce testing time by a factor of 10

#### **PROJECTS**

PORTING AMY FOR PYDATA May-July 2016

- Implemented a RESTful API over PyData conference websites with endpoints for talks, participants and sponsors
- Designed and implemented an import wizard within web project AMY that fetched participants, talks and sponsors from the REST API
- Added a pluggable Django app to AMY that extends the sponsorship and import functionality adhering to PyData's requirements

#### DYNAMIC BANDWIDTH ALLOCATION IN EPONS

2016-17

- Simulated a 16 ONU TDM EPON network in OMNET++ with varying credit schemes under self-similar Pareto-distributed traffic
- Achieved a maximum link utilization of over 98% with IPACT algorithm under varying credit schemes

# MULTISCALE EDGE-BASED TEXT DETECTION FROM COMPLEX IMAGES

**April 2017** 

- Detected text regions out of complex images using the edge densities, strength and variance of orientations
- Utilized Tesseract, the standard text processor, to extract characters from the probability density map.

## IMPOSTOR DETECTION USING KEYSTROKE DYNAMICS

Nov 2016

- Designed and developed a live impostor detector that detects an impostor based on the keyboard dynamics of the user input
- Trained Naive Bayes classifier on keyboard latency data from a group of 8 people over a period of 3 months to achieve 88% accuracy

## ANOMALY DETECTION IN REAL-TIME SURVEILLANCE VIDEOS

**April 2017** 

- Achieved real-time object detection and classification using a multi-layered CNN trained on nVidia GTX GPUs
- Determined anomalies in pedestrian and traffic by detecting sparsity in optical flow

## **AWARDS AND ACHIEVEMENTS**

- Secured Maharashtra state top 1 percentile in National Standard Examination in Physics, 2012-13
- Secured national top 1 percentile in National Standard Examination in Chemistry 2012-13
- Secured an All India rank of 28 in Unified Cyber Olympiad, 2008

# POSITIONS OF RESPONSIBILITY

## TECHNOLOGY ROBOTIX SOCIETY GOVERNOR 2016-12

Led a team of 30 robotics enthusiasts in conceptualizing Robotix 2015, India's biggest college robotics fest with over 2,000 yearly footfalls

• Conceptualized and designed the online coding event Sudocode. Implemented an online code judge that accepted over 100 submissions

# SOFTWARE CARPENTRY PROJECT MAINTAINER May 2016 - Present

- Co-responsible for maintaining and upgrading the project AMY web application used by this world-wide training organization to manage all their 1,000 workshops and 25,000 learners
- Contributed over 80,000 lines of codes across 120+ commits over the past year

#### SKILLS AND EXPERTISE

Programming Languages: Python, Java, C++, JavaScript, SQL, Ruby, ASM, Matlab

Software Frameworks : Django, Spring, NodeJS, Omnet++, Git, Robot Operating System, Selenium