

# AARUSHI KARNANY

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## EDUCATION

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### MASTERS IN COMPUTER SCIENCE

University of Florida, Gainesville, FL  
GPA: 3.77/4.00

Dec 2017

### BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE

Indraprastha Institute of Information Technology, Delhi  
CGPA: 8.46/10.00

Aug 2016

## COURSEWORK

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### Graduate

Introduction to Data Science, AI for Computer Games, Network Security, Analysis of Algorithms

### Undergraduate

Machine Learning, Pattern Recognition, Image Analysis, Mobile Computing

## SKILLS

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### Programming

Java, C, C++, Python, Ruby, Shell Script

### Platforms & Frameworks

Pandas, Piwik, Unity

### Tools

Numpy, Scipy, Scikit, Map Reduce, Hadoop, AWS, Rails, MATLAB

## WORK EXPERIENCE

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### MGAADI

Summer Intern | Bengaluru, India

May 2015 - July 2015

- Worked on backend services developed using Ruby on Rails and Padrino.
- Implemented distributed tracing by creating a Ruby gem, based on Google's Dapper paper which enabled better visualization using Kibana and Elasticsearch.

## PROJECTS

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### MOBILE MONEY MONITORING MACHINE

Individual Study | University of Florida | Group Project

Aug 2016 - Dec 2016

- Formulated a system to automate updating of mobile money applications using an unofficial Google Play Store API and sqlite3.
- Compared the previous and current versions of the application using MalloDroid, Androsim and Androdiff tools from Androguard.

### TWO-FACTOR AUTHENTICATION APPLICATION ANALYSIS

Computer and Network Security | University of Florida

March 2016 - April 2016

- Analyzed security architecture of 2FA systems and checked for vulnerabilities in architecture and implementation flaws in the APIs of Duo Security, Authy, Infobip and Protectimus.

### WIPLAY

Independent Study | IIIT-Delhi | Group-Project

May 2014 - July 2016

- Developed a successful proof of concept for an entertainment device using Raspberry Pi, Shell Script, PHP and HTML.
- Created a local Wi-Fi network to host content, which can be provided remotely using Dropbox.
- Automated way to conduct short quizzes or surveys.
- Used Piwik for statistics. Website: <http://wisplay.iiitd.edu.in/>

### HANDWRITTEN HINDI CHARACTER RECOGNITION

Machine Learning | IIIT-Delhi | Group-Project

Sep 2015 - Nov 2015

- Created a character recognition system for Hindi alphabets using PCA and HOG for pre-processing.
- Conducted binary classification between consonants and vowels using SVM, Neural Networks, Naive Bayes and RDF as classifiers.

### TV RECOMMENDATION SYSTEM

Pattern Recognition | IIIT-Delhi | Group-Project

Jan 2015 - April 2015

- Developed a TV recommendation system based on likes and dislikes present in users Facebook profiles using K-means Clustering, Collaborative Filtering and Content based Filtering.

## ACHIEVEMENTS

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Grader for Computer and Network Security Course, University of Florida

Sep 2016 - Dec 2016

Teaching Assistant for Principle of Communication Systems Course, IIIT-Delhi

Jan 2015 - April 2015

First Prize in StartUp Showcase, Techniche '15, IIT-Guwahati

Sep 2015