# Vishal Gupta

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#### **EDUCATION**

University of Florida

Gainesville, FL

MS in Computer Science GPA: 3.59/4.0

Aug 2016 - Dec 2017

Courses: Advance ML, Advance DS, Big Data Ecosystems, Distributed OS, Analysis of Algorithms, Intro to Data Science

Indian Institute of Technology

Kanpur, India

B. Tech. in Electrical Engineering GPA: 7.0/10.0

June 2010 - June 2014

Courses: AI Programming, Probability and Statistics, Statistical Simulation & Data Analysis, Convex Optimization, NLP

## EXPERIENCE

Claimfound Inc. Software Developer | Skills: Python, PostgreSQL, JavaScript, Docker, AWS Gainesville, FL

March 2018 - Present

- o Optimizing search and user info matching by data mining users across whitepages database
- o Back-end development for Flask-based webapp, architecting scalable APIs & DB design with agile methodologies
- o Implemented and automated logic for massive DB updates & maintenance reducing man hours from days to hours o Designed & deployed reliable, scalable & elegant cloud based services: Elastic Cache, VPN and Auto-scaling nodes
- o Automated end to end testing for the complete webapp.

Qualcomm Inc.

San Diego, CA

Graduate Engineering Intern | Skills: Python, TensorFlow, GPU May 2017 - Aug 2017 o Research of CNN based deep learning algorithms\* for improving traditional camera design and capabilities

- o Development of Python APIs for generating high quality RGB images from raw sensor data
- o Reduced (luma & chroma) noise by 2x using multi-resolution approach for large range of ISOs

Qualcomm India Pvt. Ltd.

Bangalore, India

Associate Engineer | Skills: C++, Python

June 2014 - Aug 2016

- o Assisted in development & integration of firmware on premium tier SoCs: Snapdragon 820, 810, 800 etc
- o Reduced man-hours by 3x & 2x boost in verification coverage by automation of verification infra across 7 SoCs

Intelligent Data Engineering & Automation Laboratory

Kanpur, India

Research Associate | Skills: MATLAB, Java, Android

May 2012 - Dec 2012

- o Formulated methodology for fault discovery using advanced signal processing techniques on acoustic signals
- o Deigned Softmax Classifier with Sparse Auto-Encoder achieving 98% accuracy for fault detection task

### PROJECTS

Multi-Domain Chat-bot | Skills: Python, TensorFlow, GPU

- o RNN-LSTM network with attention mechanism for embedding multi-domain context
- o Improved the context specificity of output ranging from information-centric questions to understanding emotions.

Credit Card Fraud Detection | Skills: Python, Pandas, Sklearn

o Accomplished highest AUC of 0.98 on extremely skewed fraud transaction dataset with XGBoost algorithm & ensemble methods

Transfer Learning on Kaggle Cats & Dogs Dataset | Skills: Python, SVM, GPU

o Obtained 2-class accuracy as high as 70% & 63% for 3-class classification with just 5000 samples using kernel SVM with hyperparameter optimization using Bayesian approach using Inception-v3 deep features

#### PUBLICATIONS

- o Anup Zade & Vishal Gupta, "Software Centric Verification of xPU and other Security Blocks\*\*" In QBUZZ'15, Annual Developer Conference organized by Qualcomm India Pvt. Ltd.
- o Nishchal Verma, Vishal Gupta, Mayank Sharma & Rahul K Sevakula, "Intelligent Condition Based Monitoring of Rotating Machines using Sparse Auto-Encoders", IEEE International Conference on Prognostic Health Management, 2013

### ADDITIONAL

- Technical Skills
  - Proficient: Python, C/C++, Java, PostgreSQL, Git, MATLAB, Linux, Bash, MacOS
  - Skilled: Flask, Docker, ORM, GPU, HTML, Jira
  - Familiar: Android, Angular, JavaScript, TypeScript, Spark, MapReduce,
- o Gartner Group Info Tech Scholarship for outstanding academics among 700 MS students in CSE Dept (academic year 2016-2017)
- o Graduate Assistant for the course Sparse Coding in Sensing, Imaging & Learning, Fall'17
  - \*1 Patent Application in process; \*\*Manuscript proprietary of Qualcomm