

# RISHIKESH GHEWARI

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## EDUCATION

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University of California San Diego	M.S. Computer Science	GPA: 3.83/4.0	2017 (expected)
IIT Guwahati	B.Tech Computer Science & Engineering	CPI: 8.44/10	July 2014

## WORK EXPERIENCE

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<b>Arista Networks</b> <i>Software Developer Intern</i>	June - September 2016 <i>Santa Clara, CA</i>
<ul style="list-style-type: none"><li>• Worked with the OpenStack team to modularize the provisioning logic. Created a separate module which handles the source agnostic provisioning of VLANs and VLAN-to-VNI Mappings</li><li>• Enhanced Arista's EOS by adding CLI commands for OpenStack</li></ul>	
<b>PayPal India Private Limited</b> <i>Software Engineer 1</i>	June 2014 - July 2015 <i>Chennai, India</i>
<ul style="list-style-type: none"><li>• Worked with the Transaction Engine team, to develop features for refund flows, for example, enabled more than 100% refunds, enabled adding of non referenced refunds which are refunds without a parent transaction.</li><li>• Implemented a eventually consistent database model, which facilitated concurrent refund requests by a seller, which in turn accelerated the integration with new, large vendors.</li></ul>	
<b>Arista Networks India Pvt Ltd</b> <i>Software Developer Intern</i>	May - July 2013 <i>Bangalore, India</i>
<ul style="list-style-type: none"><li>• Developed a Test Infrastructure to test clock synchronization (gPTP) and stream reservation (SRP) protocols of Audio-Video Bridging on real and virtual network switches.</li><li>• Augmented benchmark implementation of AVB to make it configurable using Linux named pipe.</li></ul>	

## PROJECTS UNDERTAKEN

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<b>Coupon Purchase Prediction</b> <i>Kaggle Competition</i>	April 2016 <i>Programming Language: Python(Theano)</i>
<ul style="list-style-type: none"><li>• Used deep neural network for predicting if a coupon would be purchased.</li><li>• Achieved a Mean Average Precision @ 10 of 0.008144 which was ranked 17 on the Kaggle Leaderboard(post competition).</li></ul>	
<b>Helpfulness Prediction and Book Rating Prediction</b> <i>Course: Data Mining</i>	October 2015 <i>Programming Language: Python</i>
<ul style="list-style-type: none"><li>• Used latent factor model to develop a system to predict book ratings on Amazon. Got a RMSE of 0.817 on the ratings.</li><li>• Used linear regression to predict the number of helpful votes for a book review on Amazon. Got a MAE of 0.57.</li></ul>	
<b>Anytime Algorithm for Association Rule Mining</b> <i>Bachelor's Thesis Project</i>	August 2013 - May 2014 <i>Programming Language: Java</i>
<ul style="list-style-type: none"><li>• Designed an anytime algorithm for association rule mining. Anytime algorithms trade performance for time. The algorithm is interruptable and delivers the best result available at the point of interruption.</li><li>• Experimented with and modified the traditional Apriori and FP-Tree algorithms for association rule mining</li></ul>	
<b>Online Approval Automation System for IIT Guwahati</b> <i>Course: Databases</i>	March 2013 <i>Programming Languages: PHP, MySQL, AJAX, Javascript</i>
<ul style="list-style-type: none"><li>• Developed a system to automate resource allocation and approval for IIT Guwahati on a web-based platform.</li></ul>	

## RELEVANT COURSES

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Algorithms, Machine Learning Theory, Learning Algorithms, Data Mining, Probabilistic Reasoning & Learning, Neural Networks, Information Retrieval, Data Structures

## TECHNICAL STRENGTHS

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Computer Languages	Python, C++, C, Java
Machine Learning Tools	Caffe, Theano, Spark, Weka
Web Development	HTML, JavaScript

## SCHOLASTIC ACHIEVEMENTS

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- Certificate of Achievement for ACM ICPC 2014 Asia Amritapuri Onsite Regionals
- All India Rank 1475 (among around 470,000 students) in IIT Joint Entrance Exam (IIT JEE-2010)
- All India Rank 1112 (among around 1,100,000 students) in All India Engineering Entrance Examination (AIEEE-2010)