

Karthik Kannan

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Summary

Graduate Student at the University of Colorado Boulder. Currently looking for Software Engineering internships for summer 2016.

Education

University of Colorado Boulder **Master's in Computer Science** Aug 2015- Present

- GPA – 4.0
- Relevant Coursework
 - *Fall 2015*- Machine Learning, Theory of Computation
 - *Spring 2016*- Design and Analysis of Algorithms, Object Oriented Analysis and Design
- Recognized by the Machine Learning instructor as one of the top 10 students of the course.

Vellore Institute of Technology **Bachelor's in Computer Science** Jul 2010 – Jul 2014

- GPA – 8.1/10
- Selected for the Cisco Center of Engineering Excellence from a batch of 450 students.

Relevant Experience

University of Colorado Boulder Nov 2015

Analysis of Betrayals in the Diplomacy Board Game

- Term project that dealt with analysis of various factors that preceded betrayals in the board game of Diplomacy and tried to predict betrayals before they occurred.
- Extended the work done by Niculae Vlad, et al, to incorporate more features and achieve better accuracy.
- Achieved an accuracy of 67% improving on a baseline of 56%.

Cisco Systems Jul 2014 - Jul 2015

Network Consulting Engineer, GSP Software

- Built a web classification system to enable visibility into enterprise cloud consumption which resulted in a system that helped automate existing manual processes.
 - Used machine learning text classification and web scraping techniques.
 - Deployed a web service as an interface for the classification system using Python and SQLAlchemy
 - Exposure to large scale deployment of big data projects using Hadoop MapReduce
- Web Classification project recognized by Parvesh Sethi, erstwhile SVP, Cisco Systems.

Cisco Systems Jan 2014- Jul 2014

Intern

- Created a Proof-of-Concept prototype to demonstrate the feasibility of leveraging automation to enable visibility into the cloud consumption of an enterprise
- Performed analysis of data gleaned from enterprise network traffic and researched on avenues to automate this process.

Certifications

Cisco Certified Network Professional December 2013

Skills

- **Programming Languages** - C, C++, Java, Python, HTML, CSS, SQL
- **Tools and Frameworks**
 - Web Development - Flask, Celery Distributed Queue, Locust Load Testing
 - Big Data and Machine Learning - Apache Hadoop, Apache Spark, Python ScikitLearn
 - Cloud Computing - OpenStack Setup and Configuration
- **Operating Systems** - Windows, Linux