Warut Vijitbenjaronk

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EDUCATION

UNIVERSITY OF ILLINOIS
Urbana-Champaign
Expected May 2019
BS in Computer Engineering
James Scholar
Dean's List (All Semesters)
GPA 3.97 / 4.00

COURSEWORK

Machine Learning Theory
Algorithms and Models of Computation
Artificial Intelligence
Applied Parallel Programming
Computer Systems & Programming
Computational Linguistics
Data Structures

SKILLS

PROGRAMMING
Proficient:
Python • C • CUDA
Java • C++ • Javascript
Familiar:
AngularJS • Node.JS • x86 Assembly
LaTeX • CSS • Ionic • SQL • Scala

INVOLVEMENT

CS 196 - Infrastructure Lead
Reflections|Projections - Systems Lead
ACM Projects - Groot Platform
SIGOPS - Cluster Team
SIGAI
SIGPwny

EXPERIENCE

IBM | Research Intern
June 2017 – Aug 2017 | Austin, TX

- Worked on optimizing and benchmarking experimental graph database
- Implemented multiversioning across distributed system
- Implemented deep reinforcement learning on a Power775 highly parallel cluster in XLUPC
- Submitted papers pending review to VLDB and IEEE Big Data conferences

VOLUME TECHNOLOGIES | Machine Learning Researcher
Sep 2016 – Current | Champaign, IL

- Working on machine learning and data analytics as a B2B solutions platform.
- Created pattern recognition system to predict customer wait times and occupancy for business partners.
- Built server back-end using Parse Platform and Node.JS to handle high-volume applications.

CS196 | Infrastructure Lead
Jan 2017 – Current | Champaign, IL

- Rewrote and improved data infrastructure and autograder
- Managed server and acted as sysadmin in Linux environment
- Taught and managed student project in information retrieval

RESEARCH

ZHAI RESEARCH GROUP
Working with Prof. ChengXiang Zhai as part of a research group to use natural language processing for collections of text. Designed a novel method for topic retrieval using a semantic graph and justification. Personal contributions include the data infrastructure and design of the machine learning model.

PROJECTS

NEURAL NETWORK FOR CHARACTER RECOGNITION
Created a Generative Adversarial Network for handwriting analysis based on recent research from the University of Toronto. The application can recognize and generate handwritten characters and digits from low-resolution images with high accuracy.

LAW –LESS
Worked on an information retrieval and case file summarization program for public defenders with fellow University of Illinois students and Prof. Cheng Xiang Zhai. Platform is now an open-source project with active contributors and VC interest. Project advanced to Microsoft Imagine Cup national finals.

STOCK MARKET ANALYTICS
Worked on a platform to analyze time-series stock market data and predict future trends using pattern recognition and natural language processing on news data as part of a multidisciplinary team. Competed and demoed project at Vanderbilt University's 2016 VandyHacks.