Nitin Jain

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EDUCATION

PURDUE UNIVERSITY
MS in Computer Science
Specialization in Machine Learning, NLP and Optimization theory
Grad. May 2016 | West Lafayette, IN
Cum. GPA: 3.74

R.V COLLEGE OF ENGINEERING
BEng in Computer Engineering
Grad. May 2013 | Bangalore, India
Conc. in Computer Engineering
Minor in Electrical Engineering
College of Engineering
Cum. GPA: 9.15 / 10

LINKS

Github:// **ninja91**
LinkedIn:// **nitinajain**
Twitter:// **@anitinjain**
Quora:// **Nitin-Jain-26**
Facebook:// **pingnitinjain**

COURSEWORK

GRADUATE
Numerical Linear Algebra
Statistical Machine Learning
Machine Learning Methods For NLP
Compilers & Programming Systems
Graph Theory
Computational Methods In Optimization
Bayesian Applied Decision Theory

UNDERGRADUATE
Digital Signal Processing
Digital Communication
Linear Algebra (Research Asst.)
Information Theory
Computer Architecture
Data Structures and Algorithms

SKILLS

PROGRAMMING
Over 5000 lines:
Java • Python • C++
Shell • LaTeX
Over 1000 lines:
Matlab • JavaScript • Android • R •
Assembly
Familiar:
CSS • MySQL

EXPERIENCE

AMAZON.COM | Software Development Engineer, Alexa
June 2016 – Present | Seattle, WA
- Lead team in building ML based proactive latent goal solving service
- Developed novel sampling techniques for NLU data platform processing vast volumes of data
- Delivered features around contextual multi-turn conversations in Alexa.
- Improved latency for core components in the language understanding pipeline

PURDUE UNIVERSITY | Full stack developer
Aug 2014 – May 2016 | West Lafayette, IN
- Designing and building the **Teaching and Learning** website for the Office of Provost. Also developed tools for **Purdue CCO** for data cleaning and handling
- Developed and integrated tools to transfer large amount of data for **Purdue Cyber Center**

CISCO SYSTEMS | Software Development Engineer
Aug 2013 – Aug 2014 | Bangalore, India
- Implemented Face-based Autofocus(3A) algorithm
- Created a patentable Face detection based Auto-Focus algorithm with Non-linear regression

RESEARCH

PURDUE UNIVERSITY | NLP Research | Prof. Goldwasser
Jan 2015 – May 2015 | West Lafayette, IN
Automated Detection and Extraction of Sports event information from Twitter's public stream api. Created a dataset of 1000+ tweets by classifying each tweet in an semi-automated way. Developed a hierarchal model to detect and tag entities in tweets to extract scores, players.

PURDUE UNIVERSITY | Optimization & Matrix computations Research
Aug 2015 – May 2016 | West Lafayette, IN
Under Prof. Honorio, explored algorithms to learn Kernel functions over convex spaces. Implemented the Interior point method for soft-SVM with good results. Under Prof. Gleich, using memory efficient data structures extracted large bipartite graph (Dataset 150GB) of DNS census on a limited RAM machine

R.V COLLEGE OF ENGINEERING | Undergraduate Researcher
Jun 2012 – May 2013 | Bangalore, India
Research on new faster numerical methods to compute nth root of a number

AWARDS

2012	Best Debutant & Ńever Say Dié	Student Unmanned Aerial Systems, Maryland
2011	Finalist	Samsung Mobile Innovator competition

PUBLICATIONS

[1] N. Jain, K. Murthy, and Hamsapriye. Matrix methods for finding nth root of m. IJMEST, 2014.

[2] N. Jain, K. Murthy, and Hamsapriye. On finding nth root of m leading to newton raphson's improved method. IJETCAS, 2014.