Manasa Kunaparaju

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EDUCATION

New York University, New York, NY — *Dec 2016*
Master of Science, Computer Science *(Courant Institute of Mathematical Sciences)* — GPA: 3.53
Relevant Coursework: Fundamental Algorithms, Database Systems, Operating Systems, Data Mining for Business Analytics, Statistics and Data Analytics, Open Source Tools, Real-time Big Data, Data Driven Decision Making

BITS Pilani, Pilani, Rajasthan — *May 2013*
Bachelor of Engineering (Hons), Electronics and Instrumentation — CGPA: 6.02
Relevant Coursework: Object Oriented Programming, Microprocessor Programming, Digital Computer Organization,

ACADEMIC PROJECTS

Music Recommendation System: Built using content based analysis of song metadata. Used NYU's HPC to extract data from Million Song Dataset (150GB). Performed clustering using Scikit-learn and mapped the songs in the User Taste Profile dataset to the clusters to obtain a ranking of similar songs. (**Hadoop, Spark, Hive, Python, Shell Script**)
Resource Reservation: Website allowing users to lend and borrow books within a community (**Python, HTML, Django**)
Vocabulary Quiz: Web application which presents and grades a vocabulary quiz (**Python, CGI Script**);
Calendar: Custom Shell Command which can add, delete and update events (**Shell script, AWK script**)
Operating Systems Component Simulation: Simulated Linker, Scheduler, Memory and Input/output Management using a Discrete Event Simulation Model **(C++)**
Ludo: A web based Social Multi-player Game (Javascript, AngularJS)
Enterprise Data Architecture Design: Modeled a schema that supports the design of enterprise storage systems and normalized it. Built a physical database that conforms to the model **(MySQL Workbench)**
Predicting if a Car is a Lemon: Predicting the price and quality of a car being auctioned. Obtained a formula to help car dealers make an informed decision about purchasing the cars. Performed dimensionality reduction and experimented with various models of which we selected Naïve Bayes based on model evaluation results **(WEKA, Rapid Miner)**

PROFESSIONAL EXPERIENCE

Web Developer, NYU Gallatin School of Individualized Study — *Jun'15 - Present*
- Design and update Components and web pages NYU Gallatin's website using AEM **(Java, JSP and HTML)**

Developer, till9.com (Personal Project) — *May' 14 - Oct'14*
- Designed a website to facilitate networking amongst attendees for various conferences **(Java, JSP, HTML, CSS, SQL)**

Software Engineer, Electronic Arts Games, Hyderabad — *Jul'13 - Apr' 14*
- Ported the game "Theme Park" from Android to Windows 8; embedded Ads by integrating Inneractive Ad SDK **(C#)**
- Updated game engines for 'Monopoly Classic'. Integrated WiFi and Bluetooth connectivity **(C++)**
- Embedded games in Ziosk, a tabletop ordering, entertainment and payment solutions **(C++)**

Software Engineer – Intern, Electronic Arts Games, Hyderabad — *Jul'12 - Dec'12*
- End-to-end development of a Metro Style Windows 8 application: App to be used as an online/offline product catalogue for Windows 8 tablets and desktops. Made the UI customizable by passing serialized data across various components of the system **(C#)**

Intern, GMR Varalakshmi Foundation, Rajam, Andhra Pradesh — *May'11 - Jul'11*
- Developed a tool for data entry and report generation for NIRED, an institute for the under-privileged youth in the villages surrounding Rajam **(Java, MS Excel)**

CERTIFICATION

Oracle Certified Professional Java Programmer Certification

EXTRA-CURRICULAR ACTIVITIES:

Co-ordinator, Dept. of Firewallz, APOGEE — *Jan'12- May'12*
Student Mess Representative, Mess Council, BITS Pilani — *Aug'10 – May'11*