JEREMY HINTZ

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EDUCATION

The University of Texas at Austin   **GPA: 3.66**   **Dec 2016**

Master of Science, Computational Science, Engineering and Mathematics
Bachelor of Science, Computer Science

Relevant Coursework:

Fall 2016: Neural Networks, Visual Recognition, Reinforcement Learning in Practice

Past: Machine Learning (Python), Statistical Learning and Data Mining (Python), 3D Computer Vision (Python), Operating Systems (C), Computer Architecture (C), Mobile Computing (Java, Android), iOS Mobile Development (Objective-C, iOS), Data Structures (Java), Intro to Computing (C++), Engineering Computations (C++)

HONORS & CERTIFICATIONS

Mensa International Member

Duane Lee Moody Scholar
> Awarded to an outstanding engineering student displaying academic excellence and integrity

Browning Endowed Scholar
> Awarded to an outstanding student who demonstrates passion for engineering

PROFESSIONAL EXPERIENCE

Uber, *Software Engineering Intern - Realtime Services*   **May 2016 - Present**
> Building a predictive capacity model of Geobase service for provisioning servers for future traffic
> Creating job for load-testing production servers with "replayed" real traffic for more realistic and consistent load tests and failure tests
> Developing diagnostic tool for assessing balance of traffic across hosts and planning/simulating traffic reroutes on overloaded hosts

RetailMeNot, *Software Engineering Intern - Machine Learning & Data Science*   **June 2015 - Nov 2015**
> Drove estimated $1.1 million in revenue for Q3 & Q4 through higher click-to-deliver rates, elevated user engagement and lower lapse rates
> Built and trained a logistic regression machine learning model using Python with sklearn to predict user-item affinity on unstructured web data
> Used output of logistic regression affinity model (described above) as input to implicit matrix factorization model for collaborative filtering
> Built algorithm in Apache Spark, achieving mean percentile rank of 7% for dataset of 12 million users, 1 thousand items
> Collaborated across Data Science and Engineering teams to facilitate productionization of algorithms on accelerated timeline

RealMassive, *Software Engineering Intern*   **May 2014 - Dec 2014**
> Contributed to front and back-end development of company's main web app product built on GoogleCloud Platform, Python, and Angular.JS
> Built a bot that scraped the RealMassive database using the Google App Engine Python NBD Datastore API and syndicated updates to Twitter
> Developed iOS (Obj-C) application that interacts with RealMassive public API using RestKit, Google Maps SDK, SendGrid API and LinkedIn API

Samsung Austin Semiconductor, *Undergraduate Engineering Intern*   **May 2013 - Aug 2013**
> Raised overall throughput of team's manufacturing sector by 4%, representing direct cost savings of $640,000 per quarter
> Engineered a solution to major manufacturing stop-loss by developing new methodology for isolating outliers in streaming data analysis
> Supervised a team of 6 engineering technicians to roll out aforementioned solution within time constraints of the internship

BlackBerry, *Product Engineering Intern*   **Jan 2013 - May 2013**
> Increased efficiency of product testing by developing and implementing automated test framework using Java and Swing framework

NON-ACADEMIC PROJECTS

Selfie Studio Android App (Java)
> App uses computer vision techniques to rate users' selfies by comparing current photo to past Facebook photos and leveraging likes and comment sentiment from Graph API

CV Checkers (Python)
> Allows users to play checkers with physical pieces remotely
> Program uses webcam to build model of gameboard and "reproject" pieces on screen

Longhorn Game Plan iOS App (Objective-C)
> Social tailgating/party app for UT Football built in Objective-C using Parse as back-end

SKILLS & INTERESTS

Languages	Other Technologies
Python	Apache Spark / MLlib
Java	Hadoop / MapReduce
C	Hive / Pig
Objective-C	TensorFlow / SKLearn / OpenCV
HTML/CSS/JS	
Matlab / R	
SQL	

ON-CAMPUS AND COMMUNITY INVOLVEMENT

UT Computer Science Department, *CS 439: Operating Systems - Teaching Assistant*   **Jan 2015 - Present**
> Instruct students on concepts such as synchronization, virtual memory, heap memory managment, file systems, and networks
> Lead two weekly discussion sections of 30 students each; hold office hours to assist with systems programming projects; grade assignments

The Daily Texan, *Director of Web Development*   **Jan 2014 - Dec 2014**
> Supervise team of 4 developers to perform massive design overhaul and migration from Drupal site to new Webhook Platform
> Used HTML/CSS/JS, Bootstrap, and Swig.JS to implement new responsive layout on front-end built on Grunt and Firebase back-end