

Emmett Kotlikoff

110 Millstone lane – Aurora, NY 13026 - (607) 229-6041 – ekotlikoff@gmail.com

Education	Cornell University, College of Arts and Sciences <i>Bachelor of Science in Computer Science</i> Major GPA: 3.47/4.0		Spring 2016
Experience	Technology Analyst, Goldman Sachs, New York, NY <ul style="list-style-type: none">Led an effort to catalogue and monitor all x509 certificates for expiry in a large (3+ million user) production environment, utilizing Prometheus, Alertmanager, and a probing processUpgraded our Prometheus and Grafana infrastructure to auto scaling groupsIdentified a critical need to respond to data volumes (greater than 20TB a day) in our Splunk cluster, and led an effort to upgrade the version of the entire system of more than two hundred Splunk nodes in order for us to utilize remote storage with S3. This allows for scaling storage and compute separately, and led to a savings of 200k dollars per monthRecognized and prioritized high risk technical debt – for example A records pointing to non-static IP addresses of instances within an ASGLed the standardization of our code by creating pre-commit git hooks to auto format TerraformDesigned and implemented a highly available Fluentd cluster in AWSIntegrated Marcus's 100GB/day Splunk cluster with the firm standard SDLC, and automated the deployment of changes to automatically update to the cluster. This included both Splunk administrative configuration and user-defined knowledge objects (alerts/dashboards). Benefits include audit trail for changes to productionized knowledge objects, increased transparency to the configuration of the cluster, and increased ease/transparency of administrationLed a project to redesign and automate a Fed reporting flow, utilizing the firm's strategic data centralization platform to consume, refine, classify, and ultimately publish the data for regulatorsWorked independently to design and develop a shared React component for data filtering now used by more than 10 applications firm-wide	<i>SRE, AWS, Prometheus, Splunk, Java</i>	2016 - Present
	Software Engineering Intern, Google, Mountain View, CA <ul style="list-style-type: none">Regularly submitted code for review learning rigorous code style and testing practices	<i>C++</i>	Summer 2015
Course Work	Introduction to Natural Language Processing <ul style="list-style-type: none">Implemented various NLP systems: genre prediction based on bigram model perplexity, supervised word sense disambiguation based on ensemble learning of various knowledge sources, and named entity recognition using a Hidden Markov Model approach	<i>Python</i>	Fall 2015
	Introduction to Computer Game Development <ul style="list-style-type: none">Software lead of our team of 6 (4 programmers and 2 designers)Delegated coding requirements to members of the group for each sprintWon 'Most Polished' award from a field of 18 completed games, download here!	<i>Java</i>	Spring 2015
	Practicum in Operating Systems <ul style="list-style-type: none">Implemented a preemptive, multilevel queue scheduler and user-level threading	<i>C, Python</i>	Fall 2014
	Computer System Organization and Programming <ul style="list-style-type: none">Developed a 32 bit, 5 stage MIPS Processor	<i>C, Logisim</i>	Spring 2014
Independent	Student Mentor, iMentor, New York, NY <ul style="list-style-type: none">Providing five years of advice and guidance to a student throughout high school and into their college transition		2016 - present
	Recreational Event Networking Application <ul style="list-style-type: none">Designed and implemented a complete functional prototype in three days, showing my versatility with new systems as this was my first experience with the IOS platformhttps://github.com/Ekotlikoff/RecLeague	<i>Swift</i>	Winter 2015