

GREGORY CHEN

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EDUCATION

Columbia University B.A. in Computer Science; Cumulative GPA: 3.77 <i>Data Structures and Algorithms (Java)</i> <i>Advanced Programming (C, C++)</i> <i>Fundamentals of Computer Systems (MIPS assembly)</i> <i>Analysis of Algorithms I</i> <i>Programming Languages and Translators (OCaml)</i> <i>Introduction to Databases (SQL)</i>	New York, NY Class of 2017 <i>Discrete Mathematics</i> <i>Computer Science Theory</i> <i>Operating Systems I</i> <i>Intro to Probability and Statistics</i> <i>Computer Networks</i>
Manhattan School of Music B.M. in Jazz Piano Performance; Cumulative GPA: 3.93	New York, NY Class of 2013
Valley Christian High School Class Rank: 1	San Jose, CA Class of 2009

EXPERIENCE

Bloomberg L.P.: Software Engineer (Mar. 2017 – Present) <ul style="list-style-type: none">TOMS (Trade Order Management Solutions) - Trade Entry and Enrichment Team	New York, NY
Betterment: Software Engineer Intern (Summer 2016) <ul style="list-style-type: none">Java back-end developer on Trading team, which is responsible for the implementation and testing of core tools and applications performing backend operations in cash and trading.Used historical data to implement a market volatility detection tool to influence trading strategy.Streamlined price refreshing utility to reduce number calls to external pricing API by an order of magnitude.Used Linux profiler tools and JVM modifications to generate “flame graph” visualizations of stress-test performance metrics in order to identify specific tasks in need of performance optimization.Implemented Joda-Time/Java 8 time conversion utilities to aid in deprecation of Joda-Time after upgrade to Java 8.	New York, NY
Columbia University: Research Assistant (Dec. 2015 – Sept. 2016) <ul style="list-style-type: none">Research publication: “Demo Abstract: Power-Aware Neighbor Discovery for Energy Harvesting Things,” in <i>Proc. ACM SenSys '16</i>, 2016.GUI to demonstrate behavior of “Power-Aware Neighbor Discovery for Energy Harvesting Things” protocol (900 lines of Python, using TkInter toolkit).http://dl.acm.org/citation.cfm?id=2996538&CFID=696586482&CFTOKEN=24969661	New York, NY
TBAG – a (t)ext (b)ased (a)dventure (g)ame language: Lang Designer/Sys Architect (Sept. – Dec. 2015) <ul style="list-style-type: none">Original language and compiler optimized for writing text-based games (written in OCaml, compiled to Java).Responsible for language grammar design and compiler architecture within a five-person project group.https://github.com/jj-ian/tbag.git	New York, NY
NYC Dept. of Education/Afro Latin Jazz Alliance: Piano Instructor (Nov. 2011 – Nov. 2012) <ul style="list-style-type: none">Worked with the <i>Afro Latin Jazz Alliance's</i> outreach program to provide after school music education programs at the <i>Bronx Studio School for Writers and Artists (PS 268)</i> and the <i>Business of Sports School (PS 393)</i>.Guided students in developing their technical facilities, music appreciation, and teamwork skills.	New York, NY
San Jose Jazz Society: Music Instructor (Summer 2010, 2011) <ul style="list-style-type: none">Instructed middle and high school age students in beginning piano, music theory, jazz improvisation, and small-group ensembles, culminating with a final community concert.	San Jose, CA

SKILLS

Programming Languages: Java, C, C++, Bash, Python, Javascript, SQL, OCaml
Web: HTML, CSS, Jinja, jQuery
Frameworks: Gradle, Spring, Mockito, Flask
Version Control: Git, SVN, Fortran
Software: IntelliJ IDEA, RDE

AWARDS

Dean's List: Columbia University 2013 – Current

Dean's List: Manhattan School of Music 2009 – 2013