

Ronald Nicholas Balutiu

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EDUCATION

The University of Chicago

B.S Computer Science, Specialization in Data Science

Chicago, IL

Expected Jun. 2020

- **GPA:** 3.55/4.0 | **Major GPA:** 3.75/4.0 | **Honors:** Dean's List (2016 - 2019)
- **Relevant Coursework:** Application Development, Networks & Distributed Systems, Cryptocurrencies, Computational Linguistics, Data Visualization, Theory of Algorithms, Discrete Math, Linear Algebra, Math Methods for Machine Learning

Hunter College High School (HCHS)

High School Diploma

New York, NY

Jun. 2016

- **Cumulative GPA:** 93/100 | **ACT:** 35/36 | **Math SAT II:** 800/800

WORK EXPERIENCE

Visa Inc.

Software Engineering Intern

Austin, TX

June 2019 – September 2019

- Implemented a real-time, worldwide monitoring system to track health of 100 internal servers using Node.js, React, and PowerShell
- Helped build VisaGo, a customized link shortener for Visa's internal company-wide LAN using SQL server and Node.js
- Created a Python script used on over 3200 Macs to highlight system vulnerabilities and applications not meeting Visa requirements
- Programmed a worldwide Mac monitoring system to visually display all Visa Mac locations, OS versions, and JAMF check-in times. Built using Node.js, React, and JAMF's REST Api

Computer Science Instructional Laboratory (CSIL)

System Administrator; Imaging and Scheduling Meister

Chicago, IL

May 2018 – Present

- Maintain 65+ OS X machines by updating software and checking for hardware failures for 500+ daily student and faculty users
- Helped implement and maintain a Mojave image to be used on all CSIL machines using Jenkins, Ansible, Homebrew, and JS
- Lead project to relocate, update, and maintain 5 servers used for lab imaging, backups, and web hosting services (*Summer 2018*)

NextGen Growth Partners

Private Equity Analyst Intern

Chicago, IL

Sept 2017 – Dec 2017

- Researched and evaluated industries for investment opportunities as part of investment professional's deal sourcing process
- Analyzed CIMs with fellow interns to make investment recommendations based on financial performance and firm criteria
- Presented industry investment thesis and research on battery recycling, fire and safety, and managed service provider markets at firm-wide meeting and gained approval to work with two other interns in subsequent deal sourcing and outreach process

TF Cornerstone Inc.

Management Assistant

New York, NY

Jun 2017 – Aug 2017

- Rewrote application paperwork in addition to creating on-boarding presentations and manuals to streamline hiring procedures
- Updated manuals to reflect new municipal housing regulations and keep buildings in compliance with NYC property code
- Evaluated various general contractors based on past performance reviews, materials sources, and long-term durability of their past work to rank their services for new construction projects

FEATURED TECHNICAL PROJECTS

Sudoku Creator and Solver (Python)

- A python-based Sudoku game built using Tkinter capable of creating a random board with a unique solution given the number of empty squares desired. Generates a board with 55 empty squares in ~2 seconds
- Is capable of solving most Sudoku boards in under 0.01 seconds, with 99% of tested boards being solved in less than 0.1 seconds

New York Felony Analysis (JavaScript, Python, Node.js, D3.js)

- An interactive visualization built primarily using JavaScript to highlight and compare felony violations across New York City precincts across 17 years. Data was pre-processed using Python and displayed using D3.js and Node.js

Chicago Traffic Violations (JavaScript, Python, D3.js)

- A static visualization built primarily using D3.js to analyze red light and speeding violations within the city of Chicago. Raw data was acquired from the city (data from 2014 – 2018) and was pre-processed using Python.

Cache Simulator (C, GDB Debugger)

- A cache simulator implemented in C for my computer systems class. The simulator takes a Valgrind trace file as input as well as parameters for the cache and accurately outputs the expected number of hits, misses, and evictions for the trace file.

SKILLS & TECHNOLOGIES (IN ORDER OF PROFICIENCY)

- **Languages:** Python, JavaScript, C/C++, Racket, SQL
- **Web Technologies:** React, Node.js, D3.js, HTML, CSS (Bootstrap)
- **Other:** Git, SVN, GDB Debugger, Valgrind, JAMF Administration, REST Api's