

VINCENT NIKOLAYEV

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vinceniko.github.io

EDUCATION

NEW YORK UNIVERSITY (MAY 2021)

Master of Science: Computer Science - GPA: 3.91

- *Concentrations:* CS Theory; Data Science
- *Selected Coursework:* Compiler Design, Big Data, Analysis of Algorithms, Operating Systems, Computer Networking, Information Visualization, Discrete Mathematics

NEW YORK UNIVERSITY (DEC 2018)

Computer Science Bridge Program

- Graduated with the Certificate of Distinction

CUNY BARUCH COLLEGE (NEW YORK, NY; MAY 2018)

Bachelor of Arts: English, Business Communications. Minor: Statistics & Quantitative Modeling

- Graduated Magna Cum Laude

WORK EXPERIENCE

DATA ANALYST - TAPINATOR INC. (NEW YORK, NY; JUL 2016-AUG 2020)

- Created and maintained Company's average paying user life model for audited, public revenue reporting
- Performed statistical analyses on game data, including user and monetization metrics
- Retrieved, grouped, and cleaned datasets with SQL and Pandas
- Visualized data and metrics with Matplotlib, D3.js, and Plotly
- Developed command line and GUI interfaces for internal software with Vue.js and Tkinter
- Developed parallelized web scrapers to efficiently collect data

TEACHING ASSISTANT: CS BRIDGE - NEW YORK UNIVERSITY (REMOTE; FEB 2019-PRESENT)

- Tutor and grade hundreds of students on foundational topics of CS including, Discrete Mathematics, Programming with C++, Algorithms and Data Structures, Operating Systems, and Computer Networking
- Developed a Golang tool which automates parts of the grading workflow including, running and testing submitted code

SKILLS

SOFTWARE DEVELOPMENT

- *High Proficiency:* Python and its popular analytics libraries, Golang, Rust, C++, JavaScript, Vue.js, Git
- *Proficiency:* HTML/CSS, SQL, Spark, Unity, Godot

OTHER

- Experience writing technical documentation, research papers, and business reports; Fluent in Russian

PROJECTS

ACADEMIC

- A compiler for the Cool language made with C++, MIPS, Flex, and Bison: github.com/vinceniko/cool-compiler
- Column metadata analyzer for NYC Open Data developed in Spark: github.com/vinceniko/NYC-OpenData-Profiling

PERSONAL

- Personal blogging and portfolio site developed with Vue.js: vinceniko.github.io
- Golang and Vue.js web-app prototype with a real-time data notification system and discussions boards
- Tetris clone developed in Rust: vinceniko.github.io/projects/tetrust
- Configurable Fractal Tree generator using Rust, p5.js, and Vue.js GUI: vinceniko.github.io/projects/fractal_trees