Maksym Kornyev

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EDUCATION

Carnegie Mellon University

Pittsburgh, PA May 2021

Bachelor of Science in Information Systems — GPA: 3.67 — Dean's List, High Honors 78th William Lowell Putnam Mathematical Competition participant.

Programming Skills

Languages: Python, Ruby, C, SQL, PL/pgSQL, CoBOL

Technical Skills: Git, Unix, MongoDB/PyMongo, Redis, Matplotlib, PostgreSQL, RStudio, Vertabelo

In Progress: Smart Contracts/Cryptographic Constructions, Rails, HTML/CSS

Other: Russian(fluent), Relational Database Development, Adobe Photoshop, Paint.NET

Projects & Coursework

- Application Design, Coursework: Built a basic Webapp using the Rails framework to support create, read, and delete operations on anonymous user posts. Spring 2019
- Data Structures, Coursework: Implemented the Huffman bit-packing algorithm using weighted frequency trees: The final program had the functionality of 7Zip. Also built a low-level virtual machine for memory management in CMU's safe subset of C. Fall 2018
- Database Design, Coursework: Created a normalized transaction/user store for use in Postgres. Modeled the project after a Venmo architecture and fulfilled payment, deposit, and user functions using SQL scripts & Python. Fall 2018
- PyMusic, Project (Find me on Youtube!): Built a learning software capable of scanning and playing sheet music. Used Numpy & OpenCV edge detection to find notes on an image. Also used PyAudio & Thread for well-timed audio effects, all packed into a Python-motivated TkInter GUI. Delivered new UX features including accidentals, instruments, and play speeds. April 2018 - Present
- Hack112, Competition: Developed an audio response tool triggered by music & microphone input in an event loop. Used Pyaudio & Numpy libraries to parse and find audio thresholds for the program. This team contribution was implemented as part of a simple clicking game with a sound component. April 2018

Professional & Leadership Experience

World Leaders Database Project

Carnegie Mellon University IPS

Research Assistant Jan 2019 - Present

• Helped code & maintain research data spanning 50,000 attributes over several hundred world leaders.

Office of New York State Assemblyman Brian Barnwell

AD 30, Queens, NY

Research and Data Unit Lead — Senior Staff Member

May - Aug 2018

- Carried out the campaign-wide tracking of KPI's: made weekly recommendations to refocus canvassing teams to more active turfs, and realized a 3% average gain in success rate for our most active districts.
- Coordinated and worked closely with a team of 5 interns to create demography reports using official constituent datasets. Also used a DoB database to review tax records for office audit purposes.
- Worked extensively with non-English speaking constituents & the elderly, and carried out liaison work, turf canvassing, and cold-call/tabling outreach in New York State's 30th Assembly district.

• Other:

Scrutinized management of my personal savings portfolio (Robinhood).

First chair trumpet in CMUs All University Orchestra, Tartan Wind Ensemble, Pep Band, and Kiltie Marching Band. Also a soloist for an S&S Orchestra Production. 2017-18.

Volunteer with Kiwanis International, Camp Invention, and Long Island Alzheimer's Foundation. 2014-17. Waiter, PW Yacht Club. Familiar with catering management and industry standard Aloha POS Systems.