

EDUCATION

- **Carnegie Mellon University** Pittsburgh, PA
Bachelor of Science in Information Systems | GPA: 3.64 | Dean's List, High Honors
78th William Lowell Putnam Mathematical Competition participant. May 2021

PROGRAMMING SKILLS

Languages: Python, Ruby, SQL, JavaScript, HTML, CSS, C | Solidity, CoBOL

Technical Skills: Rails, Postgres, Git, Heroku, TDD, CI, Unix, MongoDB/PyMongo, Redis, RStudio

In Progress: Swift, Java

Other: Russian(fluent), RDBMS Development, TDD, UML, Paint.NET

PROJECTS & COURSEWORK

- **Application Design, Project:** Built an online marketplace using the Rails framework. Implemented authentication, authorization, and API features while working in an MVC paradigm. Spring 2019
- **Data Structures, Coursework:** Implemented a command line zip tool that used the Huffman bit-packing algorithm with weighted frequency trees. Also replicated a low-level virtual machine for a C-based language. Fall 2018
- **Database Design, Project:** Created a normalized transaction/user database in Postgres. Modeled the project after a Venmo architecture and automated payment, deposit, and user functions using SQL & Python scripts. Dec 2018
- **PyMusic, Project:** Built a learning software that scans and plays sheet music. Used Numpy & OpenCV for image processing, and PyAudio & Thread for audio effects. April 2018
- **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. April 2018
- **World Leaders Database Project, Research:** Helped build a research data database spanning 50,000 attributes over several hundred world leaders. Jan 2019 - May 2019

PROFESSIONAL & LEADERSHIP EXPERIENCE

- **Palau Foreign Investment Board** Republic of Palau, TCinGC Program
Technology Consultant Jun 2019 - Aug 2019
 - Aided the organization in their transition to paperless and engineered a document submission solution.
 - Evaluated candidate cloud platforms, and built a lightweight JavaScript application on top of the selected platform's API. The WebApp was deployed to AWS S3, and accommodated the intake of the top 2 highest-volume paper submissions to the organization.
- **Database Design & Development** Information Systems Department, CMU
Teaching Assistant Aug 2019 - Present
 - Led weekly teaching, lab, and OH sessions for students learning Database Design, SQL, and noSQL tools.
- **New York State Assemblyman Brian Barnwell** Woodside, NY
Research and Data Unit Lead — Senior Intern May - Aug 2018
 - Carried out the campaign-wide tracking of KPI's: made recommendations to move canvassing teams to more active turfs, and realized a 3% average increase in success rate for our most active districts.
 - Coordinated and worked with a team of 5 interns to create demography reports using constituent data.
 - Worked extensively with non-English speaking constituents & the elderly.
- **Other:**
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.*