

EDUCATION

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

PROGRAMMING SKILLS

Languages: Python, Ruby, SQL, JavaScript, HTML, CSS, C | R, Solidity, CoBOL
Technical Skills: Rails, Postgres, Git, Cucumber, Heroku, TravisCI, Unix, PyMongo, Redis
In Progress: Swift, Java, JUnit, Weca
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

- **Technology Consultant** Republic of Palau, TCinGC Program
Palau Foreign Investment Board *Jun 2019 - Aug 2019*
 - Aided the organization in their transition to paperless and engineered a document submission solution.
 - Brainstormed a directory structure with the staff, translated these requirements to API calls, then tested the code with Postman.
 - Built a lightweight JavaScript application on top of the organization's document platform. Deployed the **WebApp** to AWS S3, and ultimately accommodated the intake of the top 2 highest-volume paper submissions to the organization.
- **Teaching Assistant** Information Systems Department, CMU
Database Design & Development *Aug 2019 - Present*
 - Led weekly teaching, lab, and OH sessions for students learning Database Design, SQL, and noSQL tools.
- **Research and Data Unit Lead — Senior Intern** Woodside, NY
New York State Assemblyman Brian Barnwell *May - Aug 2018*
 - Carried out the campaign-wide tracking of KPI's: reported canvassing team progress to the Chief of Staff, and used an Excel model to realize 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.
- **Advanced Courses**
Graduate: Machine Learning In Practice, Blockchain Applications
Undergraduate: iOS Engineering, Software Construction