

# Maksym Kornyev

📧 mkornyev.github.io

in linkedin.com/mkornyev

✉ mkornyev@gmail.com

## EDUCATION

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- **Carnegie Mellon University** Pittsburgh, PA  
*Bachelor of Science in Information Systems | GPA: 3.67 | Dean's List High Honors* May 2021

## PROGRAMMING SKILLS

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**Languages:** JavaScript, HTML/CSS, Ruby, SQL | Python, Java, Swift, C | R, Solidity

**Technologies:** Rails, SwiftUI, Django | Postgres, Firebase, MongoDB, Redis

**Practical Skills:** Git, Heroku, TravisCI, AWS (EC2, S3), Cucumber

**Other:** Database Development, UML, TDD, Photoshop, Weka, WCAG/ADA, Russian (fluent)

## PROJECTS & COURSEWORK

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- **TripBook, Project:** Built and deployed a concept social-media iOS app. Users log their movements, see instant updates on their trip maps, and share images. Built using SwiftUI, integrated with MapKit-style View Controllers, all linked to a persistent Firebase backend. Fall 2019
- **Palauan Warrior, Freelance Project:** Built a single-view site to showcase Polynesian War Clubs. Used GSAP and vanilla JavaScript to create dynamic site animations. Summer 2019
- **Application Design, Project:** Built an ecommerce market using the Rails framework. Implemented authentication, authorization, and an API for the wabapp. Migrated the project to Postgres and deployed to Heroku. 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

## WORK EXPERIENCE

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- **Student Consultant** Republic of Palau  
*Palau Foreign Investment Board | TCinTC Program* Jun 2019 - Aug 2019
  - Aided the organization in their transition to paperless and engineered a document submission solution.
  - Brainstormed a server-side process flow with the staff, translated user stories for uploads 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 two highest-volume paper submissions to the organization.
- **Data Unit Lead, Senior Intern** Woodside, NY  
*New York State Assemblyman Brian Barnwell* May - Aug 2018
  - Tracked campaign-wide 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.

## TEACHING ASSISTANT EXPERIENCE

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**Mobile Web Design:** Taught advanced CSS, JS, & mobile design concepts. Jan 2020 - Present  
**Application Development:** Lab TA for a core full-stack web framework course. Jan 2020 - Present  
**Database Development:** Taught Postgres, MongoDB, and other noSQL tools for a core DB course.  
Evaluated project team proposals for database designs throughout the semester. Aug 2019 - Dec 2019

## ADVANCED COURSES

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**Graduate:** Machine Learning in Practice | Blockchain Applications

**Undergraduate:** iOS Engineering | Software Construction: Design Patterns & Concurrency