

EDUCATION

- **Carnegie Mellon University, GPA: 3.75** Pittsburgh, PA
BS in Information Systems | Minor in Software Engineering | Dean's List High Honors May 2021

WORK EXPERIENCE

- **Software Engineering Intern** Remote / Boston, MA
Novetta | NMA Team May - Aug 2020
 - Developed multiple UI and backend components for the team's main analytics product.
 - Took lead on a data export epic and built a service to connect RabbitMQ, a GraphQL instance, & the product's local JS layer. Worked with engineers to extend the GQL API and deploy the microservice.
- **Student Consultant** Republic of Palau
Palau Foreign Investment Board | TCinGC Program Jun - Aug 2019
 - Proposed a *paperless* transition plan to the Executive Director, and worked closely with staff on adopting a compliant cloud-based document management solution.
 - Built a JavaScript application on top of the adopted document platform. Deployed the web app to AWS, and enabled digital uploads for the two highest-volume paper submissions to the organization.
- **Data Unit Lead, Senior Intern** Woodside, NY
NYS Assemblymember Brian Barnwell May - Aug 2018
 - Tracked campaign-wide KPI's: reported canvassing team success 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 a team of 5 interns to create public demography reports using constituent data.

PROJECTS

Remote Marble Maze, Project: Programmed an Arduino microcontroller to move a marble maze assembly. Developed an iOS app to send gyroscope data to a pub/sub broker, which then triggered a user's local maze. Ultimately enabled multiple global clients to control remote mazes with low latency. **{Swift, C++}** Fall 2020

NewERA, Capstone: Developed a web app to help our client document their street outreach and distribute resources to constituents. Deployed it to production and performed a hand off to a local IT org, all as part of a pro bono consulting engagement. **{Django, DigitalOcean, Scrum}** Spring 2020

TripBook, Project: Built a concept social-media iOS app where users log their movements, see instant updates on their trip maps, and share images of their experiences. **{SwiftUI, MapKit, Firebase}** Fall 2019

Palauan Warrior, Freelance: Built a single-view app showcasing Polynesian War Clubs. Summer 2019

BakingFactory, Project: Built a full-stack e-market using the Rails framework. Implemented authentication, authorization, and an API for the web app. **{Rails, Postgres, SQLite, Heroku}** Spring 2019

TEACHING ASSISTANT POSITIONS

- iOS Engineering: Head TA** and mentor for 5 small mobile app project teams. Fall 2020
- Application Development: Head TA** for a full-stack web development course. Spring 2020/21
- Mobile Web Design: Head TA** teaching advanced CSS, JS, & mobile design concepts. Spring 2020
- Database Development:** Taught Postgres, MongoDB, and noSQL tools for a core DB course. Fall 2019

PROGRAMMING SKILLS

Languages: JS(ES6), HTML/CSS, SQL | Python, Ruby, Swift | Solidity

Technologies: Node, Django, Rails, Flask, SwiftUI | GraphQL, Postgres, MongoDB, Firebase

Practical Skills: Git, Docker, k8s, AWS (RDS, EC2, EKS, S3), Heroku, Vagrant, TravisCI, Cucumber

Other: Shell Scripting, DB & API Design, TDD, UML, WCAG/ADA, Russian (fluent)