

## EDUCATION

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- **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

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- **Software Engineering Intern** Boston, MA  
Novetta | NMA Team May - Aug 2020
  - Developed multiple UI and backend components for the team's main analytics product.
  - Took lead on an epic where I built an export service to connect RabbitMQ, a GraphQL instance, and 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 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

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**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 Work:** Built a single-view site showcasing Palauan 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. **{Postgres, SQLite, Rails, Heroku}** Spring 2019

## TEACHING ASSISTANT POSITIONS

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- iOS Engineering: Head TA** and team mentor for a senior capstone course. Fall 2020
- Application Development: Head TA** for a full-stack web dev 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

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

**Technologies:** Node, Django, Rails, 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)