

# JOHANNA SMITH-PALLISER

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## CONTACT

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## ACTIVITIES

Hyperloop Project Team  
Web Development Lead  
BigRed//Hacks  
Director of Sponsorship  
CUEmpower  
Mentor  
Underrepresented  
Minorities in Computing

## AWARDS

GEM Fellow  
NACME Scholar  
Dean's List

## COURSEWORK

Object Oriented  
Programming  
Data Structures  
Algorithm Design  
Functional Programming  
iOS Development  
Artificial Intelligence  
Data-Driven Web Apps  
Information Retrieval  
Crowdsourcing & Human  
Computation

## SKILLS

Python, Swift, Javascript,  
Objective-C, Java, HTML,  
CSS, PHP, SQL, C, MATLAB  
GitHub, d3.js, Xcode,  
Jupyter Notebook, VS  
Code, Heroku, MS Office  
Native Spanish speaker

## EDUCATION

Cornell University – M.Eng. Computer Science May 2020  
Cornell University – B.S. Computer Science, GPA: 3.126 May 2019  
Miami Dade College – A.A. Computer Science, GPA: 3.98 May 2015

## PROJECTS

### Career Queue

- Prototype iOS application built in Swift, connected to Python backend
- Lead full-stack implementation of iOS application, creating the frontend views through user-centered design processes in collaboration with our client and using a RESTful API to make calls to connect to backend
- Wrote technical documentation to ensure complete specification of functionality and smooth handover to future developers

### Chef's Choice

- Using information retrieval, recommends recipes based on user's self-reported mood alongside optional fields such as diet, cuisine, meal type, ingredients
- Developed for web with Python, PHP, HTML, and CSS, using the Spoonacular API and a backend database to maintain training set of recipes

## EXPERIENCE

Adobe Summer 2019  
Software Engineering Intern – Lightroom Creative Cloud

Twitter Summer 2018  
Software Engineering Intern – iOS

- Optimized fullscreen video ads using a native iOS video player implementation for the MoPub SDK with functionality for metrics tracking and VAST XML parsing
- Improved load time by up to 5 seconds per ad, affecting \$2.1M of MoPub revenue
- Utilized Objective-C, Swift, Model-View-ViewModel architecture, and Twitter iOS style guide

Teaching Assistant Spring 2018  
Introductory/Intermediate Design & Programming for Web (CS 1300, CS 2300)

- Explained technical concepts – frontend development, database construction, user interactivity – and design principles to 30+ students as instructor of a Lab section
- Provided personalized support for students through weekly office hours, both in groups and one-on-one
- Evaluated projects and provided feedback to strengthen students' skills in PHP, SQL, AJAX, Javascript, HTML, CSS

GE Aviation Summer 2017  
Digital Technology Leadership Program Intern – Brilliant Factory

- Collaborated with multiple team leads as project coordinator for an electronic records management initiative for Maintenance, Repair, and Overhaul shops reducing processing time by 30-50% and producing \$600K in annual savings
- Debugged and led data ingestion efforts and streamlined reporting process for insights on shop labor hours through a dashboard displaying metrics and trends, saving \$500K per site
- Utilized Agile methodology to manage the development process for each project