

TIFFANY A. BALCARCEL

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EDUCATION

WASHINGTON UNIVERSITY IN ST. LOUIS, MCKELVEY SCHOOL OF ENGINEERING

Graduation: May 2020

Bachelor of Science in Computer Science Cumulative GPA: 3.22/4.0; Engineering GPA: 3.34/4.0

Dean's List Spring 2019

Double Major: Computer Science and Economics & Strategy; Minor: Mathematics

- 1 of 3 recipients of the James & Merry Mosbacher/Edward Jones Scholarship, Deneb Scholar, National Hispanic Scholar, 2018 Qualcomm/Grace Hopper Conference scholarship recipient, 2019 Liberty Mutual/Tapia Conference scholarship recipient
- **Relevant Coursework:** Data Structures & Algorithms; Intro Parallel & Concurrent Prog; Adv Video Game Prog; Rapid Prototype Dev & Creative Prog; Game Theory; Differential Equations; iOS Mobile App Dev; Data Mining; Object-Oriented Dev; Statistics
- **Classes in Progress:** Analysis of Algorithms; Rapid Prototype Dev/Creative Prog; Cloud Computing - Big Data; Database Mgt Sys

TECHNICAL SKILLS

Computer Languages: Java, Python, Swift, C++, C, PHP,
HTML, CSS; Familiar in: C#, JavaScript, Objective-C
Operating Systems: MacOS, Linux, Windows, iOS

Technologies/Databases: Git, Arduino, Jupyter, STATA,
MySQL, Apache; Familiar in: Oracle, AWS
Language Skills: Fluent in Spanish

TECHNICAL EXPERIENCE AND PROJECTS

Deutsche Bank, New York, New York

Technology Summer Analyst - Developer

June 2019-August 2019

- Worked on reference data services agile team to migrate legacy databases into a master database to save company resources
- Created testing strategy to ensure proper parsing from XML and legacy databases, shorten test period, and reduce expenses
- Developed a sentiment analysis system for financial news using Python machine learning packages to create a neural network

Washington University in St. Louis – Computer Science and Engineering

Teaching Assistant for Data Structures & Algorithms, Mobile App Development, Logic & Discrete Mathematics

January 2018-Present

- Assigned as assignment grading lead and worked with other Teaching Assistant's to ensure fairness and equity in grading
- Facilitated students' learning experience in asymptotic complexity and graph theory using prior knowledge

Weekend Wear Rentals, St. Louis, MO

Director of Technological Development

June 2018-Present

- Managing inventory database and payments, transactions, and financial documents for our themed rental startup
- Create marketing strategy based on Square transaction analysis to target potential first-time and recurring clients

Green Dining Alliance, St. Louis, MO

iOS Application Developer

Summer 2018

- Created an iOS app primarily with Swift and XCode, utilizing MapKit, WebKit, for a local nonprofit
- Used Google's Firebase SDK to integrate userbase and database with existing WordPress website and app

LEADERSHIP EXPERIENCE

Washington University International Relations Council

Director of Committees, Travel Team Member

November 2016-Present

- Directing three teams of six staff members and 25 delegates for fall and spring Model United Nations conferences
- Developed 20+ page research guides relating to climate policy, the Cold War, and St. Louis, respectively, to educate delegates

Olin Business Council

Vice President of Career and Professional Initiatives

September 2016-May 2018

- Orchestrated the annual Chicago Career Trek and arranged housing, transportation, and career events for 30 students

Gamma Phi Beta, International Sorority

Risk Management Chair, Collegiate and Alumnae Chair

December 2017-Present

ACTIVE MEMBERSHIPS

WiCS, ACM, SHPE, SWE, Olin Peer Ambassadors