

# Divya Jagadeesh

Software Engineer ♥ Graduate Student ♥ Seeking 2018 Summer Internship

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## EDUCATION

### University of Southern California

2016 - Present ♥ Los Angeles, CA  
Master of Science in Computer Science  
Expected December 2018  
Scientists and Engineers Option

### Penn State University

2013 - 2016 ♥ University Park, PA  
Bachelor of Science in Mathematics  
Graduated May 2016  
Minor in Statistics  
Concentration in Computer Science

## SKILLS

### Programming Languages

C, C++, Java, Python, HTML5, CSS3, MySQL, Postgres, R Command, Matlab

### Tools

Git, Github, Bitbucket, Linux, Unix, Bash, Tcsh, Postman, MongoDB, Google Cloud

### Courses

Algorithms, Artificial Intelligence, Operating Systems, Computer Architecture, Databases

## AWARDS

### BNY Mellon Hack-a-thon Winner

Javascript ♥ Ionic  
QR Scanning Code App

### Women in Mathematics Scholarship Recipient

Genomics ♥ Likelihood  
Natural Selection on the Human Genome

### Northrup Grumman Hack-a-thon Most Spirited Team Award

Java ♥ Android Studio  
Disaster Relief Form with GPS tracker App

## ORGANIZATIONS

### USC Triathlon

September 2017 - Present

### USC Association of Computing Machinery

October 2017 - Present

### Penn State Natya Dance Team

September 2013 - May 2015

## INTERESTS

Bharatanatyam, Triathlon, Violin, Psychology, TED Talks, Coffee, Food

## INTERNSHIPS

### BNY Mellon ♥ Application Platform & Services Intern

June - August 2017 ♥ Pittsburgh, PA

- \* Rewrote and UX tested NEXEN API documentation, further implementing it to BNY Mellon's internal developer site in order to teach employees of all technical backgrounds how to begin using NEXEN's API
- \* Conducted daily SCRUM meetings, worked as a team under Agile methodology, and presented progress at bi-weekly sprints to stakeholders, service owners, and investors
- \* Constructed Crafter components with HTML and CSS onto client-facing development site to add functionality to UX

### BNY Mellon ♥ Mobile Development Intern

June - August 2016 ♥ Pittsburgh, PA

- \* Worked on development team to contribute to bug improvements and feature updates to existing mobile application
- \* Created and installed sound detection devices with breadboards, microphones, and Arduino on limited time and budget
- \* Managed MySourceSocial webpage for new app updates, feature requests, and bug updates to mediate consumer needs and development team mandates

## PROJECTS

### Wedding Seating Arrangement

Python ♥ DPLL Algorithm ♥ SAT Encoding

- \* Outputs a wedding seating arrangement based on the number of guests, number of tables, and number of seats per table
- \* Considers people who must sit with each other and people who cannot sit with each other

### Bucket Filter System

C ♥ Multithreading ♥ Mutexes

- \* Takes incoming packets and services them based on their token value and whether there are enough tokens in the bucket
- \* Gets rid of packets whose token value is larger than the bucket capacity
- \* Stops servicing when user presses stop or when all packets have been serviced or dropped

### Maze Search

Java ♥ Recursion

- \* Takes a maze as input and calculates a valid path from start to finish
- \* Outputs an error message if there is no valid path

## TEACHING

### Penn State University ♥ Learning Assistant

September 2015 - May 2016 ♥ University Park, PA

- \* Tutored students to help them understand the basics of C++ and procedural-oriented programming
- \* Led student-facilitated project review sessions