Divya Jagadeesh

U.S. Citizen

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EDUCATION:

The University of Southern California — Los Angeles, CA
M.S. in Computer Science, Scientists and Engineers option — December 2018
The Pennsylvania State University — University Park, PA
B.S. in Mathematics, Systems Analysis option; Statistics minor — 3.61 GPA, May 2016

TECHNICAL SKILLS:

C	Python	Objective-C/XCode	Linux/Unix
C++	MATLAB	Verilog/ModelSim	Android Studio
Java	R Command	SAS	

INTERNSHIP EXPERIENCE:

The Bank of New York Mellon — June 2017 - August 2017
Application Platform & Services Summer Associate — *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

Mobile Development Summer Associate — June 2016 - August 2016

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

PROJECTS:

Token Bucket Filter Emulation
Operating Systems

- Emulated a token bucket filter with five threads, including a signal control thread, using multi-threading and mutexes
- Created a doubly-linked circular linked list in C to implement package and server threads
- Outputted status of package from each thread to console along with time in milliseconds to let user keep track of package location and checkpoints reached in filter emulation

Wedding Guests Table Assignment
Artificial Intelligence

- Implemented DPLL algorithm in Python to create CNF sentences for an input instance of wedding seat arrangements
- Executed WalkSAT algorithm to search for a solution for an instance of seat arrangement
- Added optimization functions to DPLL algorithm to reduce runtime for optimal time complexity

**Note: Due to University policy, I am not allowed to post my code online. Please request code.*

HACK-A-THONS:

Northrop Grumman Code-a-thon — October 2017
Zombie Apocalypse Disaster Relief App — *Redondo Beach, CA*

- Used Android Studio to create an app to match skilled survivors with victims who need help
- Accessed Firebase database and Google Maps to store information and retrieve survivor coordinates
- Won team spirit award for positive attitude, and great team presentation skills

BNY Mellon Intern Hack-a-thon — August 2017
QR Maintenance Request App — *Pittsburgh, PA*

- Used Ionic to build multi-platform app to scan QR codes and automatically send maintenance requests to MyTasks
- Collaborated on a team with three other developers and three business professionals and received first place

EXTRA CURRICULAR ACTIVITIES:

USC Triathlon Team (August 2017 – present)
USC Zeher Dance Team (2016)
USC ACM (September 2017 – present)
PSU Natya Dance Team (2013-2015)