

# Yangyang He

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## EDUCATION

### COLUMBIA UNIVERSITY

#### MS IN COMPUTER SCIENCE

Expect Dec 2019 | New York City, NY

The Vision, Graphics, Interaction, and Robotics Track

Fu Foundation School of Engineering and Applied Science

### COLLEGE OF WILLIAM & MARY

#### BS IN COMPUTER SCIENCE AND

#### FILM AND MEDIA STUDIES

May 2018 | Williamsburg, VA

Dean's List ('14 '15 '16 '17)

Accepted for Honors in CS Department

Major GPA: 3.9 / 4.0

## AWARDS

W&M CS Department Scholarship

TribeHacks III Finalist (Top 5)

TribeHacks II NLP Challenge Winner

Mathematical Contest in Modeling

Meritorious Award

## SKILLS

### PROGRAMMING

Proficient

Python • C++ • Java • HTML

CSS • Git •  $\text{\LaTeX}$

Familiar

PHP • PostgreSQL • Shell

JavaScript • Android • Swift

## LEADERSHIPS

W&M ACM, PR Chair, Web-master

W&M Photo Club, President

W&M CSSA, Media Chair

## VOLUNTEERS

W&M Academic Advising, Peer Advisor

MH370 Investigation Report, Translation and reviewing Volunteer

Google Translate Community, Member

## LINKS

Personal:// [hyy369.com](http://hyy369.com)

Github:// [hyy369](https://github.com/hyy369)

LinkedIn:// [hyy369](https://www.linkedin.com/in/hyy369)

Vimeo:// [HYY](https://vimeo.com/hyy)

## EXPERIENCE

### ORIENTAL DREAMWORKS | WEB DEVELOPER INTERN

May 2016 – July 2016 | Shanghai

- Updated Calendar API of internal portal using Java and Play Framework.
- Designed and implemented a gallery component using HTML&CSS, JavaScript, and Python.
- Forecast rendering time of Kung Fu Panda Dubai Ride production using Python.

### ABBOTT | DATA ANALYST INTERN

June 2015 – Aug 2015 | Shanghai

- Wrote web crawlers to supply geographic information for 30,000+ hospitals in the database and removed duplicate entries.
- Processed reports from 120+ sales representatives nationwide in CRM system.
- Generated QlikView documents using sales reports in "ACTION" database.

## PUBLICATIONS

Yangyang He, "Procedural Generation and Rendering of Ink Bamboo Paintings", *Undergraduate Honors Theses*, W&M Publish, Williamsburg, VA, May 2018.

## RESEARCH & PROJECTS

### BAMBOO PAINTER | PYTHON, $\text{\LaTeX}$

Independent honors research project that procedurally generates and renders ink bamboo paintings that are stylistically similar.

### SERENE SPACE ADVENTURE GAME | C++ WITH SFML & CHIPMUNK2D

With a team of 4 over 3 months, developed a physics based puzzle game, which received compliments from industry professionals for its good gameplay, creative design, and polished artwork.

### CLASSROOM BOOKING SERVICE | POSTGRESQL, PHP, HTML+CSS

With a team of 3 over 3 months, developed a web app with a database that can book classrooms on campus and assist administration in scheduling classes.

### MYODW GALLERY | JAVA, PYTHON, JAVASCRIPT, HTML+CSS

A calendar that shows national holidays and a gallery that users can upload photos to on the employee portal, with a scheduling script that randomly select 10 photos to show on the company front page every hour.

### RESTINDER | SWIFT

Independent iOS App developed in 32 hrs that helps people to pick nearby restaurants when they are too hungry to choose.

### VERB PATTERN PLUS | PYTHON

Hackathon project that notices key verbs in paragraphs and rate them.

### AMAZE 3D ANDROID GAME | JAVA, ANDROID STUDIO

Class project to extend a maze game with maze solution algorithms, alternative OOP design patterns, and personalized graphics.

### GEMINI | MAYA

3-D multi-scene animation featuring physics and particle systems.