

# JOHN PHAM

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## EDUCATION

University of California Riverside  
Bachelor of Science Computer Science 2019  
Overall GPA: 3.6/4.0

## SKILLS

**PROGRAMMING:** C++, Python, Javascript, Git, HTML, CSS, jQuery, SQL, Vue.js, React.js, WebGL  
**OTHER:** Blender, Fusion 360, Adobe Creative Suite, LaTeX, Additive Manufacturing, User Experience

## PROFESSIONAL EXPERIENCE

THE AEROSPACE CORPORATION  
Software Engineering Intern

Engineering Applications Department, El Segundo, CA  
Jun/2017 - Current

- Creating a closed loop control system for additive manufacturing which allows failure detection and print ejection using Gcode modification and computer vision allowing autonomous and maximum usage
- Reduced internal web app's loading time from 10s to 800ms by optimizing database queries, and optimizing JS/CSS payloads
- Developing a web GIS tool for counter UAS training with networking to and from a VR client
- Developed a prototype for an internal web app to help with department level strategic planning which cuts planning times from weeks to days by automating and aggregating data

UC RIVERSIDE  
Supplemental Instructor of Computer Science

Department of Computer Science, Riverside, CA  
Apr/2017 - Current

- Teaching theory and application for Introduction to C++ Programming I/II, Introduction to Data Structures, and Introduction to Computer Architecture

## FREELANCE

Web Developer

Dec/2015 - Current

- Working with businesses, college research groups, and college student organizations to create websites and web apps

NASA JET PROPULSION LABORATORY  
Software Engineering Intern

Space Instruments Group, Pasadena, CA  
May/2016 - Nov/2016

- Developed a web-based query API for the Atmospheric Infrared Sounder satellite data enabling scientists to access data on demand without having to worry about HDF version or data format
- Developed a program which uses satellite data to construct 3D volumetric models to test satellite retrieval algorithms, decreased rendering time from hours to minutes
- Program is now used at 2 NASA centers: the Jet Propulsion Laboratory and the Goddard Space Flight Center

## AWARDS

Theta Tau Foundation JEREMY CHAN SCHOLARSHIP

Jul/2017

- Awarded for an exemplary academic record and extensive level of involvement in local leadership

Theta Tau Foundation · ACADEMIC TEAM CAPTAIN SCHOLARSHIP

Mar/2017

- 1 of 8 recipients of the Theta Tau Foundation's AA scholarship. Recognized for my excellence in academics and making positive contributions to my community.

American Geophysical Union - Evan Manning<sup>1</sup>, John Pham<sup>1</sup> ·  
VISUALIZATION AND ANALYSIS OF AIRS DATA IN 3D AND VIRTUAL REALITY

Aug/2016

- Presented at AGU on the benefits of using 3D over 2D visualizations of Earth science data by showing comparisons between different retrieval versions of the AIRS instrument on the AQUA satellite

## LEADERSHIP

ASSOCIATION OF COMPUTING MACHINERY AT UCR · President

Apr/2017 - Current

- Started an incubator with funding from community and campus investors for undergraduate projects
- Creating and teaching an introduction to Python course aimed for non-technical majors with over 200 students

CITRUS HACK HACKATHON · Director

Oct/2016 - Oct/2017

- Organized a total of 4 hackathons, Cutie Hack and Citrus Hack which hosted 200 and 600 people respectively
- Worked with campus administration, community leaders, and sponsors to formulate problems with participants to solve

## HACKATHONS

Top 10 (out of 160) & Best Data Visualization Prize · PennApps 2017 and Goldman Sachs

Sep/2017

Best User Experience Prize · BCG Digital Venture's Dappathon

Aug/2017

2nd Place · AT&T Shape Hackathon 2016

Aug/2016

Best Use of Algorithmia Prize · HackPoly 2016

Feb/2016