

# Arvind Saripalli

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[Linkedin](#) [Github](#)

## Education

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**University of California, San Diego**  
B.S. Computer Science

*Sept 2017 - June 2020*  
GPA: Cum. 3.9, Major 4.0

## Work Experience

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### **Accel Robotics**

January 2018 - September 2018

*Software Engineering Intern*

- Integrated Face and Object Detection into a real-time cashierless store using Convolution Neural Networks. Showcased demo to key investors and board members.
- Developed an E2E Product Detection pipeline that was integrated into a real-time grab-and-go store.
- Built a Network Video Recorder with Square API to automatically create and augment video data.

### **Gravalabs**

September 2016 - August 2017

*Software Engineering Intern*

- Developed a hybrid webapp for drug discovery with the Ionic/Angular framework.
- Developed and integrated user API methods with webapp using AWS lambda.
- Helped design the full stack of the Medzii drug discovery platform.

## Research Experience

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### **UCSD Statistical Visual Computing Lab**

June 2018 - Present

*Undergraduate Research Assistant*

*Advised by Dr. Vasconcelos*

- Aiming to classify plankton specimen by combining multiviews and pose data with image classification.
- Attempting to improve low-shot learning computer vision problem in biological contexts.
- Comparing 2D versus 3D image classification deep networks and publishing results in November 2018.

### **Yonder Deep Robotics**

December 2017 - Present

*Board Member, Software Team Lead*

- Developing an Autonomous Underwater Vehicle (AUV) in conjunction with Scripps Institute of Oceanography. Received a \$10,000 NSF grant to develop affordable AUVs for Global Warming research.
- Developed full AUV system with navigation control and wireless communication using Raspberry Pis and a serial radio connection.
- Developing software to navigate AUVs Gyroscope/Depth/Acceleration sensor data and PID.

### **University of Washington Medical Center**

June 2016 - August 2016

*Research Assistant*

- Applied supervised learning models to CT data for error detection dosimetry quality assurance.
- Wrote a paper detailing the project and submitted to the Siemens Research competition.

## Skills

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Python: Deep Learning, Tensorflow, PyTorch, Numpy, OpenCV

Java, Javascript, C/C++ STL

Other: Shell Scripting, UNIX, Docker, AWS lambda, Git, SCRUM