Arvind Saripalli

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Education

University of California, San Diego *Sept 2017 - June 2020*
B.S. Computer Science GPA: Cum. 3.9, Major 4.0

Work Experience

Accel Robotics January 2018 - September 2018
Software Engineering Intern *La Jolla, CA*

· 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 *Bellevue, WA*

· 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

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 2019.

Yonder Deep Robotics December 2017 - Present
Board Member, Software Team Lead *La Jolla, CA*

· 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 using Gyroscope/Depth/Acceleration sensor data and PID.

University of Washington Medical Center June 2016 - August 2016
Research Assistant *Seattle, WA*

· 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

Languages: Python, Java, Javascript, C, C++ STL, R/Matlab

Libraries: Tensorflow, PyTorch, Numpy, OpenCV

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