

Valeriy Rotan

Berkeley, CA, US
valeriy.rotan@gmail.com
(408) 931-2317
linkedin.com/in/valrotan
github.com/valrotan

Education

University of California, Berkeley - BS Electrical Engineering and Computer Sciences

May 2023

De Anza College - AS Computer Science

May 2021

Experience

VMware Inc - Artificial Intelligence Machine Learning Research Intern

May 2021 - August 2021

- Developed a 3D Avatar Generation system using only open-source software and academic papers. System generates a recognizable 3D avatar with hair from a single input image.
- Placed 2nd in the Intern Borathon. In a team of 4, we created a web tool that helps improve survey quality using Universal Sentence Encoder to predict anticipated response rates to new questions.
- Tools/Technologies: Python, OpenCV, PyTorch/PyTorch3D, TensorFlow, C/C++, CMake, Docker, Flask

Peritus AI Inc - Software Engineer Intern

August 2020 - May 2021

- Improved user experience by 4% by developing a query-specific document summarization system.
- Improved recommendation engine relative performance by 2-10% using named entity recognition and entity linking using SpaCy NLP framework.
- Tools/Technologies: Python, SpaCy, NLTK, SKLearn, Git. Exposure to Docker, Kubernetes

MulticoreWare Inc - Software Development Intern

November 2019 - September 2020

- Researched, implemented, and evaluated published research papers in object detection, object tracking, face recognition, emotion recognition, and text detection.
- Designed data augmentation pipelines for image and video data.
- Tools/Technologies: Python, PyTorch, TensorFlow, DarkNet/YOLO, C/C++. Exposure to ONNX

Projects

Privasee

- Privasee is a browser extension which actively protects users' data and informs them about privacy practices on the websites they visit.
- In a team of 3, pitched Privasee to judges at the Diamond Challenge (high school entrepreneurship competition), winning at the Regional level and qualifying to the semi-finals at the International level.
- Tools/Technologies: JavaScript, Chrome Web Store

Render Engine

- 3D render engine written in C to demonstrate ray-tracing and the foundation of computer rendering.
- Tools/Technologies: C, CMake, GTK+, PThread

Certifications

Deep Learning Specialization - DeepLearning.AI via Coursera

Machine Learning - Stanford University via Coursera

Modern Robotics: Mechanics, Planning, and Control Specialization - Northwestern University via Coursera

Oracle Certified Professional, Java SE 8 Programmer - Oracle