Avinash Kondareddy

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Education

University of California, San Diego   2015 – 2020 Expected
B.S. Computer Science | Minor in Mathematics   Major GPA: 3.609

Skillset

Languages: C, C++, Python, Java, JavaScript, React, Haskell, OCaml, Reason
Machine Learning Frameworks: TensorFlow, TensorFlow.js, Keras, Caffe
Services: Amazon AWS EC2, Google Cloud Compute

Experience

Software Intern - Integrity Applications Incorporated   July 2018 - September 2018
- Developing React/Typescript web app that allows users to run detection of aircraft on surveillance images client-side using TensorFlow.js
- Training various object detection neural networks in TensorFlow on dataset generated from 3D models of aircraft
- Optimizing models to allow performant inference on limited cpu/memory resources available in browser

Computer Science Tutor – UCSD CSE Department   January 2017 – Present
- Tutored for Computer Organization and Systems Programming
- Assisted students during office hours with C and ARM assembly programming, debugging using GDB, and interacting with the CLI
- Led discussions with students discussing programming assignments and the C runtime environment/memory organization

Software Intern – Aganitha Cognitive Solutions   June 2016 - September 2016
- Researched utilizing Neural Networks for Computer Vision and Natural Language Processing tasks applicable to enterprise with mentors
- Developed an image classifier in Caffe to categorize driver behavior with a convolutional LeNet model trained with augmented driver images

Portfolio

TensorFlow.js – JavaScript, WebGL
- Contributor to tfjs-core
- Implemented cpu and gpu backend kernels for the 'cropAndResize' tensor operation along with unit tests
- Optimized performance of cpu backend by reducing unnecessary memory accesses

TritonAthletics – React, Python
- Application for Viewing UCSD Athletic events
- Led team of 4 peers to develop and deploy Google Cloud App Engine Python Backend that periodically scrapes the UCSD Athletics website to maintain an up-to-date database of sporting events.
- Implemented frontend with React-Native to parse and display the static database.