YASH LALA

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OVERVIEW AND AVAILABILITY

I am a third-year computer science undergraduate student at UCLA. My interests include parallel computation and distributed system design + debugging. I am seeking a full-time internship for Summer 2021.

EDUCATION

UCLA B.S. in Computer Science (ongoing) — GPA: 3.7, 2018 - Present
BASIS Independent Silicon Valley High School — GPA: 3.9, 2014 - 2018

TECHNICAL SKILLS

Computer Languages C, C++, Go, OCaml, Python, Shell.
Software & Tools LaTeX, Git, GCP, etc. Strong focus on scripting and kernel mechanisms.

RELEVANT COURSEWORK

CS 111: Operating Systems
CS 131: Programming Languages Architecture
CS 145: Data Mining
CS 181: Formal Languages and Automata Theory
CS 130: Software Engineering (upcoming)
CS 118: Computer Networks
CS 134: Distributed Systems
CS 180: Algorithms
Math 33A + 115AH: Linear Algebra
CS 143: Database Systems (upcoming)

RELEVANT EXPERIENCE

Pringle Lab, Stanford Genetics Department June 2017 - August 2017
Undergraduate Research Intern

· Focused on automating miscellaneous lab tasks using software. Developed a microscopic cell image recognition+counting program from scratch for use in algal haemocytometry.

Sensagrate Dev Labs June 2019 - September 2019

· Trained in image-recognition, with a particular focus on using OpenCV for traffic pattern recognition. Worked on classifying pedestrian types given street camera images.

RNA Lab September 2020 - Present

· Worked on developing low-latency methods of IP Packet payload classification for use in intelligent computation reuse in low-power networked devices.

INDEPENDENT PROJECTS

bNEAT September 2017 - May 2018

· Worked on developing an improved version of the Neuroevolution of Augmenting Topologies algorithm by using subnet recognition to implement software analogues to homeobox genes. Tested the modified algorithm's performance by teaching it to play Super Mario World®. Resulting algorithm runs through the initial learning phase faster than 'vanilla' NEAT.

Text-recognizing Refreshable Braille Display December 2016 - May 2017

· Worked on developing an E-Reader for the blind. Used GNU Ocrad to recognize printed text and translate it into Braille dots on a novel deformable electroactive polymer based 'display'.