

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, distributed system design, network debugging, and protein folding. I am seeking a summer internship.

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, Rust, Scheme, Shell.

Software & Tools

LaTeX, Git, GCP, etc. Strong focus on scripting and kernel mechanisms.

RELEVANT COURSEWORK

CS 111: Operating Systems

CS 118: Computer Networks

CS 131: Programming Languages Architecture

CS 134: Distributed Systems

CS 145: Introduction to Data Mining

CS 180: Algorithms

CS 181: Formal Languages and Automata Theory

33A + 115AH: Linear Algebra

CS 130: Software Engineering

CS 132: Compiler Construction

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.

RNA Lab

September 2020 - Present

- Worked on developing low-latency methods of IP Packet payload classification.

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'.