YASH LALA

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OVERVIEW AND AVAILABILITY

I am a fourth-year computer science undergraduate student at UCLA. My interests include parallel computation and distributed system design + debugging.

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 Python, Shell, Go, C, C++, OCaml, Java, SQL.
Software & Tools Ansible, Git, GCP, etc. Strong focus on scripting and kernel mechanisms.

RELEVANT COURSEWORK

CS 111: Operating Systems
CS 131: Programming Languages Architecture
CS 145 & 247: Intro & Advanced Data Mining
CS 181: Formal Languages and Automata Theory
CS 130: Software Engineering
CS 132: Compiler Construction (upcoming)
CS 118: Computer Networks
CS 134: Distributed Systems
CS 180: Algorithms
Math 33A & 115AH: Linear Algebra
CS 143: Database Systems
CS 214: Big Data 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.

Veritas Technologies LLC — June 2021 - Present
SDE Intern

· Worked on NetBackup Flex platform. Team tasked with implementing automatic compute node discovery and assimilation over a network. Refactored internal logic: replaced session-based internode communication scheme to an Ansible+HTTP based setup; replaced product-specific software components with platform-agnostic versions.

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 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.

Junknet: Distributed Compilation Framework — January 2021 - March 2021

· Worked on developing a distributed computing framework for a home environment. Project analyzes Makefiles and runs them in a distributed manner over available LAN devices. Network and device failures are tolerated.