

# YASH LALA

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Palo Alto, CA

## EDUCATION

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UCLA B.S. in Computer Science (ongoing)  
BASIS Independent Silicon Valley High School

GPA: 3.754, 2018 - Present  
GPA: 3.9, 2014 - 2018

## TECHNICAL SKILLS

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<b>Computer Languages</b>	C, Python, Shell, Java, Go, C++, OCaml, SQL.
<b>Software &amp; Tools</b>	Ansible, Git, GCP, etc. Strong focus on scripting and kernel mechanisms.

## RELEVANT COURSEWORK

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

## RELEVANT EXPERIENCE

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<b>Pringle Lab, Stanford Genetics Department</b> <i>Undergraduate Research Intern</i>	June 2017 - August 2017
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- Tested for selective lectin binding to various algal species. Developed a microscopic cell image recognition+counting program for use in algal haemocytometry.

<b>Veritas Technologies LLC</b> <i>SDE Intern</i>	June 2021 - Sept 2021
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- 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

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<b>bNEAT</b>	September 2017 - May 2018
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- Worked on developing an improved version of the Neuroevolution of Augmenting Topologies algorithm by recognizing and cloning distinct neural "subnets". Resulting algorithm runs through the initial learning phase faster than 'vanilla' NEAT.

<b>Junknet: Distributed Compilation Framework</b>	January 2021 - March 2021
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- 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.

<b>GRU4REC-F: Session Based Recommendations with Features</b>	March 2021 - June 2021
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- Developed session-based recommendation system which extends the GRU4REC architecture with rich item features extracted from the pre-trained BERT architecture. Non-attentive model outperforms state-of-the-art session-based models over the benchmark MovieLens 1M and MovieLens 20M datasets. Paper accepted to AAAI Student track.