

NICHOLAS SUN

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Work

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| Software Engineer
2016 - present | <ul style="list-style-type: none">• Software Engineer at <i>Mesosphere Inc.</i>• Designed and jointly implemented Edge LB, an orchestrated load balancing solution that integrates with DC/OS features such as Mesos, Marathon, Secrets, ACLs, and Service accounts• Maintain DC/OS service discovery stack (Mesos-dns, Spartan, Navstar)• Maintain DC/OS cluster ingress (Marathon-lb, DC/OS Tunnel, Edge LB) |
| Engineering Intern
Summer 2016 | <ul style="list-style-type: none">• Software Engineering Intern at <i>Mesosphere Inc.</i>• DC/OS Tunnel, a CLI module for proxy (HTTP/SOCKS) and VPN access to DC/OS clusters• HTTP proxy server component• DC/OS networking mode benchmarks (throughput/latency, host/bridge/overlay)• Prototype of distributed ACL caching leveraging Lashup |
| DI
2015 - 2016 | <ul style="list-style-type: none">• Headed by Ethan Jackson and Scott Shenker, at the UC Berkeley NetSys Lab• A policy language for the cloud featuring intuitive addressing and virtual networking• Working with containers, cloud APIs, and expressing resource constraints in the language |
| Engineering Intern
Summer 2015 | <ul style="list-style-type: none">• Web Operations Intern at <i>Etsy Inc.</i>• Disk space prediction and associated Nagios check• Qualitative approaches to server health |

Tools

Languages	Go, Python, C, Shell, Erlang, Java, Ruby	Javascript, OpenCL, Scheme, MIPS
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School

UC Berkeley	Electrical Engineering and Computer Science (EECS) Major Class of 2016
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Relevant Coursework

CS	61A (Structure and Interpretation) 61B (Data Structures) 61C (Machine Structures and Parallelism) 70 (Discrete Mathematics and Probability Theory) 170 (Efficient Algorithms and Intractable Problems) 161 (Computer Security) 186 (Database Systems) 168 (Internet: Architecture and Protocols)	9C (C Language) 9F (C++ Language) 162 (Operating Systems and System Programming) 188 (Artificial Intelligence) 189 (Machine Learning) 194-15 (Parallel Performance Software Engineering) 164 (Programming Languages and Compilers) 268 (Advanced Computer Networks)
EE	40 (Intro to Microelectronic Circuits)	20 (Signals and Systems)