

Shaun Michael Verch

<https://github.com/sverch>
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Work Experience	Site Reliability Engineer , U.S. Digital Service	December 2020 - Present
	<ul style="list-style-type: none">• Collected healthcare interoperability research in preparation for transition• Helped orchestrate quiet vaccines.gov covid-19 vaccine search tool launch	
	Site Reliability Engineer , PlanetScale	January 2019 - November 2020
	<ul style="list-style-type: none">• Automated deployment of Kubernetes, supporting infrastructure on AWS, GCP• Built monitoring stack and trained team in incident response• Defined production readiness, ensured clear product status communication	
	Creator , Cloudless	July 2018 - November 2020
	<ul style="list-style-type: none">• Created Cloudless, a prototype for low level cloud portable deployment• Deployed https://shaunverch.com, https://getcloudless.com using Cloudless	
	Site Reliability Engineer , U.S. Digital Service	July 2016 - July 2018
Education	<ul style="list-style-type: none">• Launched login.gov on AWS, Terraform, and Chef, now supporting 5 million users• Supported quiet launch of qpp.cms.gov across 6 remote DevOps teams	
	Site Reliability Engineer , URX	August 2014 - April 2016
	<ul style="list-style-type: none">• Designed and implemented a fully replicated multi-master datacenter setup• Managed 5+ engineers and 30+ services in zero downtime datacenter upgrade• Created lock free high performance persistent crawler queue	
	Database Systems Engineer , MongoDB	August 2012 - June 2014
	<ul style="list-style-type: none">• Core maintainer, wrote "willitlink" to fix massive dependency problems	
	Storage Engineering Intern , NetApp	June-August 2011, 2012
	<ul style="list-style-type: none">• Wrote automation and enhanced SCSI support for NetApp disk arrays	
University Projects	B.S. in Mathematics / Computer Science - Brown University, Providence, RI	
	M.Sc. in Computer Science - Brown University, Providence, RI	
Teaching Experience	Weenix - Implemented small Unix-like OS and ported from Xen to x86 emulator	
	Capriccio Threads - Experimental work on light weight userspace threads library	
	TCP over UDP - Implemented the TCP/IP protocol using UDP as link layer	
	<u>Conference Talks:</u>	OSCON, MongoDB Days, Scale 11x, NoSQL Now
Software Experience	<u>Online Class:</u>	M101JS: MongoDB for Node.js developers
	<u>Teaching Assistant:</u>	Operating Systems, Computing, Multivariable Calculus
	<u>Languages:</u>	C, C++, Intel x86 assembly, MIPS assembly, Bash, Perl, Python, Ruby, Java, Scala, Golang, Rust, Javascript, PHP
	<u>Operating Systems:</u>	Linux, FreeBSD, MacOS
	<u>Datastores:</u>	MySQL, Vitess, MongoDB, Kafka, Elasticsearch, HBase, HDFS, Ceph, Zookeeper
	<u>Data Processing:</u>	Hadoop Mapreduce, Apache Spark
	<u>Operations:</u>	AWS, GCP, Ansible, OpenVPN, Bind DNS, LDAP, sssd, Apache Mesos, Jenkins CI, Chef, Terraform, Kubernetes