

Shaun Michael Verch

<https://github.com/sverch>

resume@shaunverch.com

Work Experience	Site Reliability Engineer , PlanetScale	January 2019 - Present
	<ul style="list-style-type: none">Automated deployment of Kubernetes, supporting infrastructure on AWS, GCPBuilt monitoring stack and trained team in incident responseDefined production readiness, ensured clear product status communication	
	Creator , Cloudless	July 2018 - Present
	<ul style="list-style-type: none">Created Cloudless, a prototype for low level cloud portable deploymentDeployed https://shaunverch.com, https://getcloudless.com using Cloudless	
	Site Reliability Engineer , U.S. Digital Service	July 2016 - July 2018
	<ul style="list-style-type: none">Created roadmap to safely update 17 years of legacy codeIdentified and remediated hundreds of critical security vulnerabilitiesLaunched login.gov on AWS, Terraform, and Chef, now supporting 5 million usersSupported 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 setupManaged 5+ engineers and 30+ services in zero downtime datacenter upgradeCreated 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	
Education	B.S. in Mathematics / Computer Science - Brown University, Providence, RI M.Sc. in Computer Science - Brown University, Providence, RI	
University Coursework	Computer Security, Operating Systems, Computer Networks, Algorithms, Programming Languages, Embedded Microprocessor Design, Multiprocessor Synchronization, Abstract Algebra, Real Analysis, Complex Analysis, Number Theory, Cryptography	
University Projects	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	
Teaching Experience	<u>Conference Talks:</u>	OSCON, MongoDB Days, Scale 11x, NoSQL Now
	<u>Online Class:</u>	M101JS: MongoDB for Node.js developers
	<u>Teaching Assistant:</u>	Operating Systems, Computing, Multivariable Calculus
Software Experience	<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