

## Shaun Michael Verch

<https://github.com/sverch>

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<b>Work Experience</b>	<b>Freelance SRE Consultant,</b>	March 2023 - Present
	<ul style="list-style-type: none"><li>Consulting on architecture, reliability, cloud migrations, and security</li></ul>	
	<b>Site Reliability Engineer,</b> Render	January 2023 - June 2023
	<ul style="list-style-type: none"><li>Analyzed architectural risks in custom data sync protocol</li><li>Improved continuous integration for kubernetes configuration</li></ul>	
	<b>SRE Consultant,</b> Oso HQ	February 2022 - June 2022
	<ul style="list-style-type: none"><li>Supported initial launch of Oso Cloud, authorization as a service</li></ul>	
	<b>Site Reliability Engineer,</b> U.S. Digital Service	December 2020 - February 2022
	<ul style="list-style-type: none"><li>Led quiet vaccines.gov covid-19 vaccine search tool launch</li></ul>	
	<b>Site Reliability Engineer,</b> Planetscale	January 2019 - November 2020
	<ul style="list-style-type: none"><li>Automated deployment of Kubernetes, supporting infrastructure on AWS, GCP</li><li>Built prometheus based monitoring stack and created incident response process</li></ul>	
	<b>Creator,</b> Cloudless	July 2018 - November 2020
	<ul style="list-style-type: none"><li>Created Cloudless, a prototype for low level cloud portable deployment</li></ul>	
	<b>Site Reliability Engineer,</b> U.S. Digital Service	July 2016 - July 2018
	<ul style="list-style-type: none"><li>Launched login.gov on AWS, Terraform, and Chef, now supporting 5 million users</li><li>Supported quiet launch of qpp.cms.gov across 6 remote DevOps teams</li></ul>	
	<b>Site Reliability Engineer,</b> URX	August 2014 - April 2016
	<ul style="list-style-type: none"><li>Managed 5+ engineers and 30+ services in zero downtime datacenter upgrade</li><li>Created lock free high performance persistent crawler queue</li></ul>	
	<b>Database Systems Engineer,</b> MongoDB	August 2012 - June 2014
	<ul style="list-style-type: none"><li>Core maintainer, wrote "willitlink" to fix massive dependency problems</li></ul>	
	<b>Storage Engineering Intern,</b> NetApp	June-August 2011, 2012
	<ul style="list-style-type: none"><li>Wrote automation and enhanced SCSI support for NetApp disk arrays</li></ul>	
<b>Education</b>	B.S. in Mathematics / Computer Science - Brown University, Providence, RI	
	M.Sc. in Computer Science - Brown University, Providence, RI	
<b>Teaching Experience</b>	<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
<b>Software Experience</b>	<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, Wireguard, Bind DNS, LDAP, sssd, Apache Mesos, Jenkins CI, Chef, Terraform, Kubernetes, Prometheus, Victoria Metrics