

## Employment

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Software Engineer II Access Control & Enforcement	Oracle, WA	Aug 2021 – Present
<ul style="list-style-type: none"><li>• Designed and implementing new authorization flow enabling internal services to be usable by external users</li><li>• Co-designed new service to enable periodic access review of resources collaborating with UI, Console, &amp; Identity teams</li><li>• Implemented automation of scaling out of services for new regions reducing total time from 7 days to 3 hours</li><li>• Designed and implemented of retrofitting existing yubikeys to support new Identity Provider saving expenses in license costs and yubikey recall</li></ul>		
Software Engineer Access Control & Enforcement	Oracle, WA	Aug 2019 – Jul 2021
<ul style="list-style-type: none"><li>• Built new terraform provider to allow programmatic access to manage access control in resources (eg:compute instances)</li><li>• Co-designed and implemented scaling out of our access management service in air-gapped environment</li><li>• Built tool to program yubikeys on new platform in air-gapped environment</li></ul>		
Software Engineer Consumer Analytics Platform	Amazon, India	Aug 2015 – Aug 2017
<ul style="list-style-type: none"><li>• Re-architecture of service (including new data model &amp; metrics) leading to 25% faster response.</li><li>• Implemented automated recovery system for big data analytic work-flows and added failure and delay notifications for work-flows.</li></ul>		
Software Engineer, Intern	Amazon, India	Jan 2015 – Jul 2015
<ul style="list-style-type: none"><li>• Improved usability of portal by adding interactive graphing section, report generation feature and pagination.</li><li>• Automated aggregation of customer scores using Apache Pig and publishing using AWS workflow service.</li></ul>		
Software Engineer, Intern	Intuit, India	Jun 2014 – Aug 2014
<ul style="list-style-type: none"><li>• Built a service to anonymize data to be consumed by QA Engineers and reduced request time for data by 20% by moving backend for above service from MySQL to MongoDB.</li></ul>		

## Projects

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Distributed Oblivious Data Storage	2018
<ul style="list-style-type: none"><li>• Cloud storage providing availability, privacy and security using Oblivious RAM.</li><li>• Adopted existing fault tolerant storage systems to incorporate ORAM and design components to hide data access patterns.</li></ul>	
Ramsey Search	2018
<ul style="list-style-type: none"><li>• Cloud-based search and optimization project to find counterexamples for Ramsey Theorem.</li><li>• Master-Slave architecture built using Go to distribute tasks on various cloud platforms.</li></ul>	
Secure Chat	2015
<ul style="list-style-type: none"><li>• Device to Device messaging web application using End-to-End Encryption (E2EE) and Graph storage.</li><li>• Layered encryption was implemented using standard protocols such as PBKDF2, RSA, AES and SHA-256.</li></ul>	

## Education

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Santa Barbara M.S. in Computer Science GPA: 3.49	UC Santa Barbara	Sep 2017 – Jun 2019
Bangalore, India B.E. in Information Science Engineering GPA: 9.25 (Scale of 10)	PES Institute of Technology	Sep 2011 – Jun 2015

## Skills

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- Languages Java, Python, C (Proficient) Ruby, Go (Worked On) Databases MySQL, MongoDB
- Experience with AWS, Elasticsearch, Android SDK, NLTK, Hadoop, Spark