

CURRENT	<b>Brown University</b> Master's of Science, Computer Science, <i>Systems track; researching service mesh performance limits with Dr. R. Fonseca</i>	Providence, RI Jan. 2020 - Jan. 2022
EXPERIENCE	<b>PlanGrid → Autodesk (acquisition)</b> <i>DevOps/Infrastructure Engineer</i> <ul style="list-style-type: none"> <li>Developed and operated self-hosted Kubernetes clusters; managed networking, routing and platform reliability for over 100+ services on ~ 50 AWS nodes</li> <li>Contributor to Netflix's Spinnaker - <a href="#">refactored</a> Netflix's Spinnaker monitoring and shipped custom Datadog tags as first-class feature</li> <li>Implemented a 97.9% improvement in RTO/RPO of multi-TB Postgres databases through architecture overhaul</li> <li>Built infrastructure-as-a-service with Salt, Cloudformation and Terraform; undertook VPC design and Postgres load balancing for new Australia datacenter</li> <li>Automation tooling development with Python, Docker, bash e.g. network circuit breakers, DNS failover with healthchecks, diff generation for production changes.</li> </ul>	San Francisco, CA 9/2017 - 7/2019
	<b>BrightEdge Technologies</b> <i>DevOps Engineer</i> <ul style="list-style-type: none"> <li>Sole maintainer of distributed data ingestion pipeline on HDFS/Hbase; generated individual SEO recommendations for 30-40 million URLs weekly.</li> <li>Improved monitoring tooling latency by 96% after implementing priority queuing that "remembers" slow queries and diverts them to specialised channels.</li> <li>Quintupled network throughput (200 MB/s → 1 GB/s) by implementing Thrift serialization for Python code talking to Hbase over fixed bandwidth cables.</li> <li>Built out AWS fallback nodes for data pipelines colocated in physical datacenters + staging environment from scratch for monolithic data services.</li> <li>Implemented pre-commit linting, test runner execution and Redux-based caching web components for React developers.</li> </ul>	San Mateo, CA 7/2016 - 9/2017
	<b>DataWeave Software Pvt. Ltd.</b> <i>Intern - Data Semantics and Engineering</i> <ul style="list-style-type: none"> <li>Natural language processing over millions of short texts at a B2B corporation delivering business insights from public web-scale data.</li> <li>Designed and implemented a flexible and modular document clustering system for short texts using Google library Word2Vec and Python.</li> </ul>	Bangalore, India 6/2015 - 9/2015
PERSONAL PROJECTS	<b>CHR</b> , a pure-Python consistent hash ring implementation designed for pedagogical purposes, implemented completely from scratch with no advanced builtins. <b>caprice</b> , a Go client for RANDOM.org's API, capable of generating truly random non-deterministic data for cryptographic purposes. <b>wildcard-import-fixer</b> , a command-line refactoring utility to automatically find and fix wildcard imports from Python code <i>More projects available at <a href="https://github.com/AkshatM">https://github.com/AkshatM</a></i>	Open Source
EDUCATION	<b>University of California, Los Angeles (UCLA)</b> Bachelor of Science, Physics, <i>cum Laude with College Honours</i>	Los Angeles, CA July 2012 - June 2016
DISTINCTIONS	<b>Top Writer 2016 and 2017</b> , <a href="#">Quora</a> <b>6K+ Reputation</b> , <a href="#">Stack Overflow</a> <b>2015 Sharpe Fellow</b> , <i>University of California, Los Angeles</i> <b>NASA Planetary Data System Fellowship</b> , <i>NASA/UCLA</i>	2016-2017 2016-Present October 2014 2013-2015