

EDUCATION	MS in Computer Science GPA - 3.89/4 Aug 2017 - May 2019 University of Utah , Salt Lake City, USA <i>Selected Coursework:</i> Distributed Systems, Advanced Algorithms, Database Systems, Programming Languages, Data Visualization.
	B.Tech in Computer Science GPA - 8.10/10 May 2015 National Institute of Technology Calicut , Calicut, India.
WORK EXPERIENCE	Graduate Teaching Assistant , August 2018 - Present <i>University of Utah</i> <i>Course:</i> Algorithms (CS-4150) <ul style="list-style-type: none">Responsible for grading the assignments and quizzes, helping students with course material and the coding challenges assigned to them. ThermoFisher Scientific , Bangalore July 2015 -2017 <i>Associate Software Developer</i> <ul style="list-style-type: none">Sustained the company's multiple legacy projects with feature enhancements, and by fixing customer reported bugs under strict time constraints. Also assisted in moving the legacy desktop apps to cloud.Ported the company's proprietary DNA sequencing algorithm and related libraries from Linux to Windows.Automated the process of DNA sequencing analysis and reporting the resultant data through scripts.<i>Technologies:</i> Java, C/C++.
PROJECTS	Distributed (Raft) Key-Value datastore <i>Current</i> <ul style="list-style-type: none">Implemented a replicated key-value datastore that supports get, put and append operations. Replicas' state and their failures are handled by Raft protocol which is implemented as an independent service.Implemented a fault-tolerant Map/Reduce library that speeds up computationally intensive tasks' execution by distributing the work among all available servers. SimpleDB <i>Current</i> <ul style="list-style-type: none">Developed relational DBMS kernel that supports basic relational operators (joins, aggregates) and transactions. Kernel implements B+ tree indexing, LRU caching, query optimization, and 2PC. Gradually-typed Interpreter <i>Independent Study</i> <ul style="list-style-type: none">Implemented an interpreter for a gradually-typed language that supports type-inference and let-polymorphism. Gradual-typing (from recent research) combines both static and dynamic typing making it hard to infer static and polymorphic types and distinguish these types from dynamic types. Implementation of Extended-Hyperwall Senior-Year Project <ul style="list-style-type: none">Designed a hardware based support to enhance the security of Virtual machines running in virtual environments. This support known as Extended-Hyperwall augments Hyperwall, proposed in the literature, to prevent the rollback based attacks possible on VMs.Simulated the proposed design on Xen Hypervisor kernel.
SKILLS	<ul style="list-style-type: none">Programming Languages: Java, C/C++, Go.Web Technologies(<i>moderate</i>): HTML, CSS, JavaScript, D3.