

# Aditya Chanana

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EDUCATION	<b>Carnegie Mellon University</b> , Pittsburgh, PA B.S. in Information Systems, Additional Major in Computer Science • <b>CMU TartanHacks</b> : Grand prize, Emirates Challenge	May 2021 QPA 3.71/4.00 Spring 2020
SKILLS	C++, C, Java, Distributed Systems, Cloud Computing, Framework Design, Linux, Git, Python, SQL	
LANGUAGES	English (fluent), Japanese (conversational), Hindi (native)	
RELEVANT COURSES	Distributed Systems (15-440/640) Foundations of Software Engineering (17-313) Complexity Theory (15-455)	Database Systems (15-445/645) Principles of Software Construction (17-214) Algorithm Design and Analysis (15-451)
PROJECTS	<b>Computer Systems Projects</b> <ul style="list-style-type: none"><li>• Two phase commit, file-caching proxy, scaling/bottleneck detection (Distributed Systems)</li><li>• Implementing concurrent B+ trees and hash tables, storing pages to disk using a buffer pool manager and page replacement policies (Database Systems)</li><li>• Dynamic memory allocator, Shell (Intro to Computer Systems)</li></ul> <b>IS Consulting Project</b> / Allegheny Conference on Community Development • Conducted in-person meetings to understand the needs of the client • Implemented and user tested a Ruby on Rails tool to use the APIs of various government data sources like the Bureau of Labor Statistics and the Census Bureau to collect data that the client needed • Reduced the time the client spent on data analysis by half	
EXPERIENCE	<b>Member of Technical Staff Intern</b> / Nutanix, Inc. / San Jose, CA • Worked on Nutanix's Acropolis OS (AOS) helping improve their MapReduce infrastructure • Ramped up in a remote setting, becoming familiar with Nutanix's vast C++ codebase • Added a new feature to the main codebase in 8 weeks, following the standard code review process • Implemented a scan similar to Apache Hadoop's TeraSort to quantitatively and consistently measure performance independent of other components • Implemented a CLI to run the scan from a cluster and to see scan results on a web interface, as well as a unit test suite to ensure scan correctness • Ran benchmarks using the scan to reason about the performance impact of changes to the MapReduce framework that the team had worked on, to avoid regression and justify changes  <b>Student Tech Consultant</b> / Majuro Stevedore & Terminal Co, Marshall Islands • Built an information system using Microsoft Access after analyzing pain points and designing functional requirements, with a focus on easy maintainability after end of consultation period • Accomplished a reduction in invoicing delays and lost cargo by integrating business processes and reducing repetitive work • Deployed a Power BI dashboard to provide KPIs to management to help inform business decisions • Engaged in extensive employee training and created training material leading to reduced lost organizational knowledge through employee turnover	Summer 2020  Summer 2019
LEADERSHIP EXPERIENCE	<b>Ballroom Dance Club</b> / Media Manager • Promoted ballroom dance by helping organize beginner dance lessons open to the general public • Represented CMU at several ballroom dance competitions in Eastern US cities  <b>Undergraduate Teaching Assistant</b> / Principles of Computing • Led weekly recitation sessions and biweekly 2-hour-long small-group sessions teaching algorithmic thinking and programming in Python, apart from other TA responsibilities	Fall 2019 – Spring 2020  Fall 2018