

# Hans J. MONTERO

## PERSONAL INFORMATION

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## EDUCATION

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SEPTEMBER 2021 - OCTOBER 2022 Masters of Science in COMPUTER SCIENCE  
Concentration in SOFTWARE SYSTEMS  
**Columbia University** - New York, NY  
4.1 GPA

SEPTEMBER 2017 - APRIL 2021 Bachelor of Science in COMPUTER SCIENCE  
Minor in APPLIED MATHEMATICS  
**Columbia University** - New York, NY  
4.1 GPA, magna cum laude

*Relevant coursework:* Hypervisors, Operating Systems, Programming Languages, Distributed Systems, Computer Networks, Design with C++, Databases, Database System Implementation

## SKILLS

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**Languages** C++, C, Python, Golang, Bash, OCaml, Haskell, JavaScript, HTML/CSS  
**Technologies** Unix, Linux Kernel, Git, Amazon S3, Kafka, Cassandra, Graphite, Splunk, Google Cloud Platform, libGDX, Netty, MySQL, phpMyAdmin

## WORK EXPERIENCE

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- JUNE 2022 - Software Engineer II @ **Google** - New York, NY  
*Cloud Techinfra, Microsecond Colossus Filesystem*  
Deliver low-latency and high-reliability SSD reads/writes. Reduce network-attached disk server CPU/memory utilization via remote direct memory access ops. Infrastructure written in C++.
- MAY 2021 - AUGUST 2021 Software Engineering Intern @ **Google** - Remote  
*Cloud Techinfra, Linux Kernel Networking: eBPF in Production*  
Introduced code profiling of packet classification and measurement eBPF programs in C/C++. Optimized eBPF programs to reduce per-packet processing time. Wrote Linux Kernel patch that provides fast storage for eBPF programs as a configurable optimization.
- JUNE 2020 - AUGUST 2020 *Cloud Sysinfra Platforms, SW Accelerators: XLS*  
Improved the DSL's functional frontend's support for type-parametricity (frontend written in Python). Added a validation feature that runs tests through frontend/IR execution engines and compares results. Implemented a QuickCheck mechanism for the DSL using the backend's C++ toolchain and a LLVM JIT.
- MAY 2019 - AUGUST 2019 Software Engineering Intern @ **Bloomberg L.P.** - New York, NY  
*Communication Channels Systems Reliability*  
Helped develop a Chaos Engineering testing framework built in Python with Kafka and Cassandra. Created a reporting service for the chaos framework to present system and experiment metrics. Assisted in bug fixes and improvements for C++ and Python backend services.



## AWARDS

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- FALL 2021 – SPRING 2022 **Course Assistant Fellowship** - Columbia CS Department  
Distinction awarded to few graduate- level course assistants for comprehensive experience.
- JUNE 2021 **HSF Scholar** - Hispanic Scholarship Fund
- APRIL 2021 **Excellence in Teaching and Service** - Columbia CS Department  
Outstanding contributions to teaching and exemplary service to the Columbia CS Department and its mission.
- APRIL 2021 **Senior Marshal, Innovation and Enhancement Award** – Columbia Uni.  
Improved the teaching and curriculum of the Columbia CS Department
- NOVEMBER 2019 **Engineering Honor Society** - Tau Beta Pi (NY Alpha Chapter)
- MAY 2017 **Top 3 Coding Team** – St. Joseph’s College HS Programming Competition  
Competed amongst 50 teams from the greater NYC area. Solved algorithm problems in Java and judged on program performance. Finished in 3rd Place.