

Junhson Jean-Baptiste

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Professional Experience

Figma <i>Software Engineer - Databases Team (Golang)</i>	Manhattan, NY <i>July 2022 - February 2024</i>
<ul style="list-style-type: none">Contributed to horizontal sharding initiative, actively participating in key projects to increase database scalabilityCollaborated on the development of an internal library, exposing sharded topology metadata to infrastructure servicesDefined and provisioned ECS task to bootstrap topologies in development clusters, enabling testing with topology libraryRefactored connection management library and operations CLI to connect to horizontally sharded database instancesImplemented tests and invariants to enforce correct operation and proactively identify potential issuesSpearheaded team-wide adoption of a unified error library, streamlining error handling across codebases	

Binghamton University <i>Teaching/Course Assistant</i>	Binghamton, NY <i>August 2020 - December 2021</i>
<ul style="list-style-type: none">Grade assignments and host weekly lab sessions/office hours to help students understand architecture/programmingCourses Taught: Data Structures, Computer Architecture, Systems Programming	

MongoDB <i>Software Engineering Intern - Sharding Team (C++)</i>	Manhattan, NY <i>June 2021 - August 2021</i>
<ul style="list-style-type: none">Restructured metrics reporting for operation that changes shard key without downtime or data loss (Live Resharding)Streamlined functionality and performance for computation of destination shards by introducing a new router classCollaborated on and co-presented a talk detailing the motivation for resharding and work delivered over the summer	
<i>Software Engineering Intern - Query Optimization Team (C++)</i>	<i>June 2020 - August 2020</i>
<ul style="list-style-type: none">Updated MongoDB Query Language (MQL) to support field names prefixed with ‘.’ and ‘\$’ (formerly reserved characters), improving data compatibility and customer efficiencyContributed to development of an MQL expression that facilitates retrieval of newly allowed field namesLed an internal presentation on MQL modifications, ensuring team alignment and understanding of customer impact	

Citigroup ICG (Institutional Clients Group) <i>Summer Technology Analyst (Python)</i>	Manhattan, NY <i>June 2019 - August 2019</i>
<ul style="list-style-type: none">Developed Python functionality to pull regression test data from various SQL databasesIncreased team productivity with scripts that automate error reporting and regression testingDelivered an end-of-summer presentation, outlining the work and its impact to engineers and senior management	

Skills

Languages: Golang, Python, C/C++, Rust, Java, SQL (*proficient*); Ruby, JavaScript, HTML/CSS, Sass (*familiar*)

Tools/Software: Git/GitHub, Vim, Linux, Make, Datadog, GDB, Protobuf, MongoDB, PostgreSQL, AWS, Terraform, Docker

Education

Binghamton University, State University New York, Watson School of Engineering <i>Master's of Science in Computer Science (Systems Focus)</i>	Binghamton, NY <i>December 2021</i>
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GPA: 3.27/4.00

Binghamton University, State University New York, Watson School of Engineering <i>Bachelor's of Science in Computer Science</i>	Binghamton, NY <i>December 2020</i>
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Major GPA: 3.21/4.00

Project Experience

Major Key: Key-Value Datastore <i>Software Developer</i>	Hempstead, NY <i>December 2020 - Present</i>
<ul style="list-style-type: none">Composed a design document with plans and outline for a distributed (sharded and replicated) key-value datastoreBuilt datastore based on RAFT algorithm in Rust using BSON, protocol buffers, and TCP networking libraries	

Image Encoder/Decoder <i>Software Developer</i>	Binghamton, NY <i>January 2020 - May 2020</i>
<ul style="list-style-type: none">Designed a program using Rust to decode/encode messages into PPM images while maintaining photo contentsLeveraged Rust's "Fearless Concurrency" features to accelerate program speed via multithreading over a folder of imagesWrote a JavaScript web client to upload photos and transfer picture contents via WASM for encoding/decoding	