

Nicholas Sarullo

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Portfolio : <https://nsarullo.github.io/portfolio/>

Nicholas Sarullo is a recent computer science undergraduate and aspiring software engineer with more than four years of experience working as an Information Technology Consultant

Skills

Languages

- Java
- SQL
- Swift
- Python

- JavaScript
- HTML | CSS
- React
- UML

Technologies

- MySQL
- MSA
- Node.js
- Firebase

Tools

- Eclipse
- VSCode
- IntelliJ
- PyCharm

Experience

Law Offices of Gaglione, Dolan & Kaplan - IT Consultant

May 2017 - Present

- Built custom cloud storage and a functional media server utilizing a router, an internal SSD, and a USB 3.0 to SATA converter cable, in conjunction with Netgear's ReadyShare technology
- Ensured each office branch's connectivity to both the cloud storage and media server through HTTPS and FTP while they concurrently maintained 99.9% uptime
- Disassembled computers to retrieve encrypted data and install new hardware (CPUs, heatsinks, chassis fans, RAM, SSDs, HDs, etc.)

iD Tech - Instructor

May 2018 - July 2018

- Utilized Minecraft console commands to familiarize students with Linux CLI architecture

Projects

Distributed Systems Search with Multithreaded Architecture

Java

- Implemented a search application with an input double array of up to 2^{32} elements partitioned and distributed among 5 nodes, each with 8 cores
- Distributed the workload in each system utilizing 1 thread per core, effectively increasing efficiency by 8x per machine, and reducing the total search time to 2.5% of the original run

Designed Database for "The Tennis Shack" in MySQL

Java, SQL, MySQL, LucidCharts

- Implemented full ELT workflow through extraction of large CSV files, ingestion of over 1 GB of data, and transforms through Java code
- Created a relational data model for RDBMS architectures that mapped out the relationships between over 20 highly populated tables

Recipe Saver & Cookbook Creator Client-Server App

JavaFX, SQL, MySQL, UML

- Created a client-server JavaFX application with a GUI capable of querying and changing over 1,000 MySQL database table elements
- Utilized iText 7's API to generate over 100 PDFs resembling physical cookbooks, each consisting of an arrangement of between two and 250 user-chosen recipe-related images
- Implemented visual recipe and cookbook title, image, and tag search and browse functionality

Education

California Lutheran University, Thousand Oaks

- B.S. Computer Science, 2021 - GPA: 3.846