# 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 | | Technologies | Tools |
|---|---|---|---|
| • Java | • JavaScript | • MySQL | • Eclipse |
| • SQL | • CSS | • MSA | • VSCode |
| • Swift | • Python | • Node.js | • IntelliJ |
| • UML | • React | • AWS | • 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 integer array of up to $2^{32}$ elements partitioned and distributed among 4 nodes, each with 2 cores
- Distributed the workload in each system utilizing 2 threads per core, effectively increasing efficiency by 4x per machine, and reducing the total search time to 6.25% 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