

# Logan Schelly

(951) 692-8802 • [idylogan@verizon.net](mailto:idylogan@verizon.net)

## Education

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### Bachelors of Science in Mathematics

April 2020

Brigham Young University

- Applied and Computational Mathematics Emphasis (ACME)
- Computer Science Minor
- Recognized for outstanding performance in Mathematics in 2020 and 2018

## Work Experience

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Head Upper Division Tutor

Provo, UT

BYU Math Lab

Sep 2014 – April 2020

- Provided exceptional service by connecting and building relationships with students in each one-on-one interaction.
- Continually improved my skills in mathematics to help provide exceptional tutoring services.
- Conducted weekly meetings to help our team of 10-20 upper division tutors prepare for that week's concepts.
- Coordinated exam reviews, and often taught them. 10 to 200 students attended, depending on enrollment and subject.
- Switched from assigning reviews week-to-week to making all assignments at the beginning of the semester. This dramatically improved the number of tutors who taught reviews, and the number of tutors who volunteered for reviews.
- Completely overhauled the tutor handbook.
- Expanded the tutor application test to include a Mathematical Proof section.

## Skills

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### Programming Languages

- Python – Very Comfortable
- C – Proficient
- C++ – Proficient, but rusty
- Java – Proficient, but rusty
- JavaScript – Beginner

### Other Tools

- $\text{\LaTeX}$  – Proficient
- Git – Intermediate
- Unix Shell – Intermediate
- HTML – Beginner

### Soft Skills

- Tutoring
- Attention to Detail
- Troubleshooting
- Public Speaking
- Leadership

## Projects

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Math Lab Student Sign Up Analysis

Fall 2019 – Winter 2020

- Consolidated data spread across 60+ Excel files.
- Used Pandas to analyze the almost 900,000+ instances of students signing up for tutor help.
- Identified busiest times of the week, and the topics students most often came in for help with.
- Advised scheduling more tutors in the mornings based on my findings.

HTTP Proxy

Winter 2020

- C program that relayed user requests to end server, and relayed server responses to user.
- Used `regex.h` to verify that user requests met HTTP formatting requirements.
- Handled concurrent requests with a threadpool using `pthread.h` and `semaphore.h`.

DNS Stub Resolver

Winter 2020

- Program interfaced with DNS servers to look up IP addresses associated with a web domain name.
- Formatted queries to DNS standards, sent the queries with UDP, and then decoded responses.
- Written C with `unistd.h`, `sys/socket.h`, `arpa/inet.h`, and `netinet/in.h`.

Android App – Family History Map

Summer 2018

- Wrote both the client and server in Java.
- Displayed family history data with a Google MapFragment.
- Implemented activities for log-in, map interaction, life event details, and app settings.
- Wrote the SQL commands that the server would use to store and retrieve user data.

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I tailored this resume for the posting at [amazon.jobs/en/jobs/1211419](https://amazon.jobs/en/jobs/1211419).

I'd love your constructive feedback. Contact me directly or open an issue at [github.com/Logan-Schelly/resume/issues](https://github.com/Logan-Schelly/resume/issues).