

Nils Olsson

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OBJECTIVE

- To foster my software development and design skills within a professional, experienced, and cooperative team environment.
- To find unique and efficient solutions to interesting but challenging problems.

EDUCATION

SAN DIEGO MESA COLLEGE (2010–2018)

Degrees earned:

- Associate of Arts: Mathematics
- Mathematics and Pre-Engineering Studies:
Emphasis in Computer Science

SENIOR TUTOR (2016–2018)

- Senior computer science and music tutor at San Diego Mesa college
- Covered C/C++, Java, C#, Microsoft VB, Excel and Access, music theory, ear training, piano, vocal performance

SAN DIEGO STATE UNIVERSITY (2018–PRESENT)

Degrees in progress (expected 2020):

- B.S. Applied Mathematics:
Emphasis in Computational Science

STUDENT ORGANIZATION LEADER

- Software team leader at San Diego City Robotics club (2013–2014). Participated in RoboSub competition
- Technical advisor at multiple clubs

COMPUTER SKILLS

LANGUAGES

- C/C++, Java, Python, Lua, SQL and L^AT_EX, etc.

OTHER TECHNOLOGIES

- APIs and Frameworks: Qt, OpenCV, SDL, NumPy
- Databases: MySQL, PostgreSQL, MariaDB
- Design patterns: MVC, singleton, command, OOP
- DevOps: AWS, Docker, Heroku
- Operating system: Linux, macOS and Windows

TOOLS

- Command line tools like Vim, Git, CMake, Gradle
- Major IDEs like Visual Studio, Eclipse, Netbeans, IntelliJ

SAMPLE WORK

- WEBSITE:
Houses my notes on a wide variety of subjects, including mathematics, music and programming
- CALCULATOR PROJECT:
Final project for Data Structures in C++ class at Mesa College. Exemplifies several design patterns: commands, singletons, chain of responsibility
- COMPUTATIONAL PROGRAMMING CHALLENGE SOLUTIONS:
Efficiently completed dozens of computational programming challenges for websites like exercism.io and Project Euler.

OTHER SKILLS

- SELF STARTER: Learned programming in 2010 via the game World of Warcraft
- MUSICALLY INCLINED: Spent several semesters singing in the Mesa College vocal ensemble; have gone on tours and performed solo in New York, Connecticut, Sacramento, Puebla Mexico, Poland and Czech Republic. Currently singing semi-professionally for a San Diego church