



## APPLICATION MENU

## Prerequisite Knowledge

Please tell us about your background knowledge below. It will help us determine if you have the relevant prerequisites at this time to successfully complete the Nanodegree program. Our prerequisites include at least intermediate C++ and Python knowledge in addition to other prerequisites you can find [here](#). If you do not meet these prerequisites, we encourage you to consider taking the [Intro to Self Driving Cars Nanodegree program](#).

*\* indicates a required question*

Without much preparation, I can evaluate if and when to use the following data structure, algorithm, or programming concept, and implement it correctly on my own. \*

- ☐ Stacks and queues
- ☐ Depth-first search and breadth-first search
- ☐ Symbol table data structures (hash tables, balanced trees, skip lists, etc.)
- ☐ Dynamic programming
- ☐ None of the above

I consider myself proficient in the following topics, meaning I have taken a class (either at university or online), or use these concepts regularly in my work: \*

- ☐ Descriptive Statistics: Calculating mean, median, mode, standard deviations, etc.
- ☐ Inferential Statistics and Hypothesis Testing: Calculating p-values and z-scores, conducting t-tests, etc.
- ☐ None of the above

I consider myself proficient in the following topics, meaning I have taken a class (either at university or online) or use these concepts regularly in my work. \*

- ☐ Linear Algebra: perform matrix multiplications, compute eigenvectors and eigenvalues
- ☐ Calculus: calculate differentials and integrals
- ☐ Multi-variate Calculus: evaluate multiple integrals
- ☐ Physics: forces, torque, velocity
- ☐ None of the above

**Use the below descriptions for the following questions describing your level of familiarity with programming.**

**Level 0:** I have never used this language before.

**Level 1:** I'm learning the basics like variables, conditionals, arithmetic, basic syntax, and string manipulation.



**Level 4:** I can write lean, well structured code to solve complex problems utilizing the full extent of the language's feature set.

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What best describes your level of familiarity with Python? \*

- ☐ Level 0
- ☐ Level 1
- ☐ Level 2
- ☐ Level 3
- ☐ Level 4

What best describes your level of familiarity with C++? \*

- ☐ Level 0
- ☐ Level 1
- ☐ Level 2
- ☐ Level 3
- ☐ Level 4

PREVIOUS

CONTINUE