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| Caleb  Kornegay | | Internet with solid fillcaleb.kornegay.github.io  (615) 924-4117  caleb.kornegay@gmail.com |
|  | | Education | | |

## Bachelor of Computer Science | University of Tennessee, Knoxville | 8/2021 – 5/2025

* 3.98 GPA, UTK eSports club (co-captain), Lunabotics (controls), and HackUTK (blue team)

## Seymour High School | Graduated 5/2021

* 4.56 GPA, Valedictorian, 35 ACT, 1470 SAT

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|  | Experience |

## Teacher’s Assistant | University of Tennessee, Knoxville | 8/2022 – Present

## Responsible for hosting office hours, liaison between students and professor, proctoring exams, grading, and labs.

## TA for COSC101 (intro) of 200 students, COSC202 (DSA I) of 85 students and COSC302 (DSA II) of 75 students.

## Able to teach hash tables, linked lists, recursion, trees, pointers, binary search, bit arithmetic, disjoint sets, graphs, BFS/DFS/Dijkstra’s, network flow, sorting, and minimum spanning tree.

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|  | Skills and awards |

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| * Construction of PCs * Advanced C/C++ skills * Operating systems knowledge * Outstanding CS Sophomore 2023 | * Working knowledge of Java, Python and Rust * Understand computer networking and security * RISC-V assembly, JavaScript, CSS, and HTML5 * Intermediate Bash skills |

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|  | Clubs |

## eSports Club | University of Tennessee, Knoxville | 8/2021 – Present

* Co-captain for the UTK eSports club’s Rainbow Six Siege team, competes at VoLAN every year ($1000 prize pool).

## Lunabotics | University of Tennessee, Knoxville | 8/2022 – Present

* Participated in controls and systems design, including drivetrain, encryption, and manufacturing.

## HackUTK | University of Tennessee, Knoxville | 8/2022 - Present

* Competed in Cyberforce’s Reign competition in Summer of 2023, placed 17th out of 144 participants

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|  | Projects |

## Makefile Generator | 5/2023 | C++

* Created a command line interface with options parsing that allows the user to construct a GNU makefile with ease.

## Sudoku Generator | 8/2022 | C++

* Implemented a sudoku solver, player, and random generator with solvable boards.

## RISC-V SV39 to PA Translator | 8/2022 | C++

* Created a program to convert a 39-bit virtual address to a 48-bit physical address using PTEs and bit shifting.