

Derek Chen

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EDUCATION

The George Washington University

Washington, D.C

Bachelor of Science in Computer Science with a Minor in Mathematics

May 2026

Technical GPA: 4.0/4.0

Cumulative GPA: 3.9/4.0

Relevant Coursework: Algorithms and Data Structures, Software Engineering, Systems Programming, Computer Architecture, Databases, Foundations in Computing, Discrete Mathematics I, Discrete Mathematics II

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, C++, C, JavaScript, HTML, React, CSS, Git, SQL, Kotlin
- **Operating Systems:** Windows, Linux, UNIX
- **Skills:** Test-Driven Development, Agile Development, Design Patterns, Data Structures, Algorithms
- **Frameworks:** Visual Studio, vim, Valgrind, Excel, Powerpoint, LaTeX

EXPERIENCE

Android/Java Developer Intern at George Washington University | Washington, D.C

January 2024 - Present

- Developed an Android application that allowed pediatric hospitals to view 14 medical manuals without internet
- Designed the application using Kotlin and Android Studio and made it compatible with Android 14

University Teaching Fellow at George Washington University | Washington, D.C

August 2023 - Present

- Lectured 50 students on discrete mathematics, algorithmic complexity, and data structures using Python and Java
- Initiated and led laboratory sections, recitations, and office hours for 20 students weekly
- Collaborated with teams of 4-10 faculty professors and doctoral students to raise student's grades by 10%

IT Intern at Lavner Education | Cherry Hill, NJ

May 2023 - August 2023

- Designed curriculum and organized courses for 4-10 students in Java, Python, C++, HTML, CSS, and JavaScript
- Performed weekly installation of software on 50+ company computers
- Communicated with location directors, regional supervisors, inventory managers, and over 40 customers daily

TECHNICAL PROJECTS

Washington Nationals Pitching Web Application - Python, Flask, HTML, CSS, Javascript

- Programmed a web application that computed and displayed scouting reports on 1000 active MLB players for the Washington Nationals baseball team
- Managed the backend using Python and SQLite and designed the frontend using HTML and CSS

Long Covid Memory Web Application - Python, Flask, HTML, CSS, ReactJS

- Independently designed a web application for patients recovering from long-covid to improve their memories
- Developed the front end utilizing ReactJS, CSS/HTML and connected it to a Python server using Flask

Mini PowerShell - C, Linux

- Assembled 8 programs that mimic the behavior of a Linux Shell
- Constructed a shell that could execute 100s of commands, redirect files, and autocomplete queries

EXTRACURRICULAR ACTIVITIES

GW Software Engineering Club - Founder/Event Planner

February 2023 - Present

- Founded George Washington University's first software engineering and project development club
- Organized hackathons, project showcases, and networking events and communicated with CS departments from other universities

Private Python Tutor

August 2023 - Present

- Educated 2 students ages 10-12 on the fundamentals of object-oriented programming using Python
- Designed asynchronous curriculum accessible to all students using HTML, CSS, and Javascript

AWARDS

- **GW SEAS Fall 2022/2023 Outstanding Scholastic Achievement**
- **George Washington's University Presidential Scholarship Recipient**
- **GW Dean Honors Celebration Recipient**