

Zachary Dexter

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EDUCATION

The George Washington University

May 2027

Bachelor of Science in Computer Science

Washington, D.C.

- Major GPA: 3.7/4.0
- **George Washington University Presidential Scholarship Recipient**
- **Relevant Coursework:** Data Structures & Algorithms, Discrete Structures, Systems Programming, Computer Architecture, Operating Systems, Software Engineering, Computer Security, Databases & Team Projects

EXPERIENCE

Systems Programming Teaching Assistant

August 2025 – December 2025

George Washington University

Washington, D.C.

- Led weekly lab sessions for 50+ students, reinforcing fundamentals of **C programming**, memory management, and process control.
- Provided individualized support during office hours, resolving over **200 student questions** across the semester on topics like pointers, dynamic allocation, UNIX APIs, and inter-process communication.
- Collaborated with faculty to design, review, and grade programming assignments, ensuring students practiced **low-level debugging**, system calls, and code craftsmanship.
- Assisted students with the course's **final project**, *msh (Mini-Shell)*, which implemented parsing, pipelines, job control, redirection, and signals to create a functional UNIX-style shell in C.

PROJECTS

University Registration & Advising System: Full-Stack System

March 2025 - May 2025

Python: Flask, JavaScript, SQLite

- Developed a database-integrated web application as part of an **Agile team**, designed to process **100+ student course registrations** and **20+ advising forms** across multiple platforms.
- Designed the user interface and app navigation using **HTML**, **Bootstrap CSS**, and **JavaScript**, improving user experience by streamlining course schedule viewing, transcript access, and account creation.
- Implemented backend functionality with **Python Flask**, integrating **SQLite** for relational data storage, form processing, and ensuring secure, multi-client database access.

Spotify Stats & AI Playlist Generator

June 2025 - July 2025

JavaScript, Spotify API, OpenAI API, React, Vite

- Developed a **full-stack web app** using **React**, **Node.js**, **Express**, **Tailwind CSS**, and the **Spotify Web API**, with **OAuth2** authentication and dynamic user data integration.
- Integrated **OpenAI's GPT-3.5** to generate and refine playlists based on natural language prompts, incorporating conversational feedback and genre analysis from user listening history.
- Designed a responsive UI with modals and real-time updates, allowing users to preview, edit, and save AI-generated playlists directly to their Spotify accounts.

NLP Covid Data Project

September 2024 - December 2024

Java

- Analyzed **150,000+ unique tweets** to extract public sentiment and opinions related to COVID-19 using **NLP techniques**.
- Collaborated with a project partner to transform raw data into actionable insights on COVID-19 sentiment trends.

TECHNICAL SKILLS

Languages: Java, JavaScript, Python, TypeScript, C#, C, C++, HTML, CSS

Frameworks/Other: React, Machine Learning, SQLite, Git, Node.js, Flask

LEADERSHIP POSITIONS

Production Director, TEDxFoggyBottom

October 2023 – Present

Oversaw team of 10+ students with \$5k+ production budget.

Executive Board Member, GW Software Engineering Club

January 2024 – Present

Worked with a team to organize weekly meetings and monthly events.

Math Tutor, GW Math Matters

August 2024 – December 2024

Partnered with DC Public Schools to provide high impact tutoring to elementary and middle school students.