

# Diego Aguilon

Austin, TX | (832) 265-2565 | [diego.eaguillon@gmail.com](mailto:diego.eaguillon@gmail.com) | <https://www.linkedin.com/in/diego-aguillon/>

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## EDUCATION

### The University of Texas at Austin

Bachelor of Science in Computer Science, Minor in Business Foundations

**Coursework:** Data Structures, Computer Architecture, Operating Systems

May 2027

GPA: 3.96

## TECHNICAL SKILLS

- **Programming:** Java (Proficient), C (Intermediate), C++ (Intermediate)
- **Systems:** Windows, Linux
- **Architecture:** ARM, x86
- **Developer Tools:** Eclipse IDE, Visual Studio Code, Git

## PROJECTS

### Virtual Operating System Kernel

January 2025 – May 2025

- Built kernel for preemptive multi-threaded operating system in C++ and x86 assembly via QEMU emulator
- Implemented Ext2 file system capable of traversing directories and interpreting files and symbolic links
- Included virtual memory functionality to enable construction and maintenance of user processes

### Instruction Pipeline Emulator

November 2024 – December 2024

- Simulated five-stage processor pipeline in C and ARM64 assembly
- Implemented core functionality that fetches, decodes, and executes computer instructions
- Increased throughput and processor efficiency via implementation of instruction forwarding

## WORK EXPERIENCE

### Data Structures Undergraduate Course Assistant

August 2024 – Present

The University of Texas at Austin, Austin, TX

- Direct weekly hour-long discussions with 20+ students regarding course content
- Offer live walkthroughs of data structures problems for 4 hours a week in office hours
- Provide instructional feedback on assignments for 5+ hours a week via discussion board and grading interface

### Computer Science Undergraduate Advising Office Associate

August 2024 – Present

The University of Texas at Austin, Austin, TX

- Field phone calls and assist walk-ins with computer science advising needs for 7 hours a week
- Coordinate with undergraduate academic advisors to direct students to appropriate faculty and resources

## LEADERSHIP & PROFESSIONAL DEVELOPMENT

### Career Prep Fellow

January 2025 – Present

Management Leadership for Tomorrow

- Accepted into a selective 18-month professional development program for high-achieving diverse talent
- Complete business case studies and assignments to grow leadership and technical skills
- Attend conferences hosted by industry leaders such as Apple, Google, and Dell Technologies

### Officer / Member

January 2024 – Present

Information and Systems Security Society, Austin, TX

- Develop and enforce yearly budget for all organization matters as officer of logistical operations
- Book on-campus locations and facilitate the ordering and delivery of concessions for weekly events
- Attend bi-weekly general meetings centered on cybersecurity education and awareness