

# Gavin L. McDaniel

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## Technical Skills

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- **Languages (in order of proficiency):** Java, JavaScript, TypeScript, C, C++, Python, x86 Assembly
- **Frameworks & Libraries:** React, Spring Boot, Express
- **Databases:** MongoDB (Atlas), MySQL
- **Web Technologies:** HTML, CSS, HTTP, JSON, REST APIs
- **Tools:** Git, GitHub, IntelliJ IDEA, Visual Studio Code, Vim, Figma, Postman
- **Concepts:** Object-Oriented Design, Data Structures & Algorithms, Debugging & Testing, Agile, API Design
- **Security:** Authentication (OAuth, token-based), Secure API Design
- **Operating Systems:** Linux, macOS, Windows

## Projects

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- Spring 2026    **Auto-scheduling Task Manager — React, Spring Boot, MongoDB**    [GitHub](#)
- Developed a full-stack task manager that automatically creates calendar events for tasks based on deadline, duration, and working hours.
  - Built RESTful APIs using Spring Boot to manage tasks and scheduling logic
  - Integrated Google Calendar API for calendar event syncing
  - Designed UI prototypes in Figma and implemented responsive React components
- Fall 2024    **Y86 Pipelined CPU Simulator — C++, GDB**    [GitHub](#)
- Implemented a pipelined CPU simulator for the Y86 architecture in C++
  - Built instruction pipeline stages including fetch, decode, execute, memory, and writeback
  - Debugged pipeline hazards and logic errors using GDB
  - Collaborated through pair programming and managed version control using Git and GitHub

## Education

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### Appalachian State University, Boone, NC

- Bachelor of Science in Computer Science — *Expected May 2026*
- GPA: 3.45/4.0
- Dean's List: Fall 2024, Spring 2025
- Relevant Coursework: Data Structures, Programming Languages, Software Engineering, Server-side Web Programming, Client-side Web Programming, Computer Systems, Databases

## Work Experience

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- 6/2024 – Present    **Technology Sales Associate**, Appalachian State University Campus Store — Boone, NC
- Advised students, faculty, and staff on educational technology purchases including laptops, accessories, and warranty options
  - Troubleshoot and maintained demo computers and devices used for in-store demos
  - Provided customer support by answering technical questions and recommending appropriate hardware solutions
  - Maintained and updated inventory and online order information through Oracle NetSuite
- 2021 – 2024    **Cashier**, Food Lion — Salisbury, NC
- Processed cash, check, and credit transactions
  - Maintained a consistent work schedule and filled open shifts when needed