


ADITYA AGARWAL

Lynchburg, Virginia

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Education

Virginia Tech

August 2023 - May 2027

Bachelor of Science in Computer Science, Secure Computing

Blacksburg, Virginia

Relevant Coursework

- Intro to Computer Org.
- Cyberlaw and Policy
- Future of Security
- Basic Data Structures

Experience

Virginia Tech

January 2025 – Present

Undergraduate Teaching Assistant (CS 2505)

Blacksburg, Virginia

- Guided students through C programming and x86 assembly, troubleshooting code and explaining key concepts in GDB, GCC, and low-level programming.
- Helped students by breaking down complex topics like memory management, pointers, and assembly instructions into clear, digestible explanations.
- Provided hands-on support in debugging segmentation faults, optimizing C programs, and understanding compiler behavior.

CloudFit Software

June 2024 – August 2024

Software Engineering Intern

Lynchburg, Virginia

- Created four new applications to the company's exclusive business management system to help collect data from users for various tasks with automation.
- Collaborated with a total of seven team members to accomplish tasks to ensure project deadlines were met.
- Utilized PowerApps, Power Automate, SharePoint, Office 365 and Azure DevOps.
- Successfully completed project and deployed to production environment ahead of schedule.

CloudFit Software

June 2023 – August 2023

Software Engineering Intern

Lynchburg, Virginia

- Added three new pages to the company's exclusive business management system to help migrate data for sales.
- Collaborated with a total of five team members to accomplish tasks to ensure project deadlines were met.
- Utilized Visual Studio Code, Office 365, Docker, HTML5, C#, TypeScript, CSS, JavaScript, and React Coding Languages.
- Successfully completed project and deployed to production environment ahead of schedule.

Projects

ATM Machine | Java

May 2024

- Programmed essential ATM functionalities such as account balance checking, cash withdrawals, deposits, and transaction history, ensuring a seamless user experience.
- Leveraged Java's built-in libraries and APIs to handle user input, perform calculations, and manage data storage effectively.

Comic List Processor | C

September 2024

- Developed a high-performance C program to process and manage a large comic database, supporting efficient search, addition, and deletion of entries.
- Optimized data handling and storage, ensuring smooth processing of large datasets with minimal performance overhead.

Technical Skills

Languages: Python, Java, C#, HTML5/CSS, JavaScript, and TypeScript

Developer Tools: VS Code, Eclipse, IntelliJ IDE, Azure DevOps, Power Apps, and Power Automate

Technologies/Frameworks/Certifications: Windows, Linux, GitHub, CompTIA ITF+

Leadership / Extracurricular

Theta Delta Chi Fraternity

January 2025 - Present

Treasurer

Blacksburg, Virginia

- * Handled dues collection and expense reports, maintaining transparent financial records and reporting to leadership.
- * Increased financial reserves by 150%, implementing cost-effective strategies and optimizing fundraising efforts.
- * Organized and financed fraternity events, ensuring smooth execution while staying within budget.