

Alyssa Dixon

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Education

Villanova University, Villanova PA

May 2025

Bachelor of Science in Computer Science

- Presidential Scholar: Full academic scholarship given to 25 students annually
- GPA: 3.96 | Honors | Dean's List

Relevant Experience

Software Engineer Intern | Chubb, Philadelphia, PA

Jun 2023 – Aug 2023

- Contributed to Chubb's data migration initiative from an on-premises Netezza server to Azure Synapse cloud platform.
- Developed Python scripts utilizing Pandas library to perform data validation and comparison, ensuring accuracy and identifying discrepancies during the migration process.
- Conducted thorough analysis of relational databases, investigating data load failures and retrieval issues; collaborated cross-functionally to pinpoint root causes and presented findings through detailed Excel reports.
- Handled special requests from manager beyond the scope of typical sprint work.

Audio/Video Tech | Villanova Distance Education Department Villanova, PA

Jan 2022 – Present

- Operate audio/video systems used to produce online content for the graduate program.
- Manage the live stream recording and archiving of Distance Education content.

Office Assistant | Villanova Learning Support Services Villanova, PA

Jan 2022 – Present

- Proctor 10-20 students per shift maintaining confidentiality and security of all testing materials.

Software Development Projects

Beauty Bar Application Prototype (Team)

- Performed SDLC functions: marketecture, process & logical view diagrams, software architecture, and development.
- Developed React Native skills through key components: independent hairdressers could post their services and the users can search for specialties, book appointments, and leave reviews.

Web portfolio (Individual)

- Developed front-end coding skills to display a web page with HTML/CSS and included interactive elements with JavaScript to display resume information in a web-format.

Image Gallery Website (Team)

- Used React to code a frontend that connected to Cloudinary's API, allowing users to post, store, and search their images.

Activities/Awards

Vatican Rome Intern Program

Spring 2024

- Selected for an internship focused on developing web-based virtual tours of the Vatican's basilica and engaging in web development projects for the Augustinians.

Villanova's Computer Science DEI Committee Member

Mar 2023 – Present

- Collaborate with professors to create and provide feedback to the department's DEI action plan.
- Brainstorm and plan DEI events, such as finding and funding underrepresented students to attend conferences (Grace Hopper Conference, VU Women in Tech, Tapia).
- Detail DEI goals and plans such as tracking retainment of underrepresented group and recruiting underrepresented faculty and students through research collaboration with HBCUs and NCWIT.

Soliant Sunrise Award

- Awarded for essay responding to: "How can software engineers and developers take a more active role in adhering to technology ethics and protecting those affected by the solutions they build?"

Villanova Clubs: Programming Team | VU Pride | Outdoors Club | Art Club | BRASA

Conferences: Women in Tech Global Summit | Grace Hopper Conference '22 | VU Women in Tech

Skills

Languages: Java, Python, C

Database: SQL, Microsoft Azure, Python Pandas

Web Development: HTML, CSS, JavaScript, React

Mobile: React Native

Tools: Visual Studio Code, Git, Jira, Figma, Excel

Intermediate Portuguese