

Remington Williams (She/Her)

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CREATIVE TECHNOLOGIST | SOFTWARE ENGINEER | HUMAN CENTERED DESIGN, RESEARCH & DEVELOPMENT

EDUCATION

Pace University, Seidenberg School of Computer Science, and Information Systems

New York, NY

Bachelor of Science (BS) in Information Technology | Software Development | Summa Cum Laude | GPA: 3.97

May 2026

RELEVANT COURSEWORK

Advanced Python | System Design & User Experience | Product Development | Database Management | Global Networking

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, Ruby, C++ | **Web Technologies:** HTML, CSS

Frameworks: React, Vue.js, Flask | **Libraries:** GSAP, Motion, Draggable, Three.js, Socket.IO, Streamlit

Databases: Snowflake, MySQL, SQLite, MongoDB | **Analytics:** Pandas, NumPy, Matplotlib, Tableau

Development Tools: Git, Docker, Bash, PowerShell, Wireshark, Node.js | **Deployment:** Vercel, Netlify, Render

Design Tools: Figma, Adobe Creative Suite, Unity XR, Blender, Lucidchart, Miro

PROFESSIONAL EXPERIENCE

Computer Research Association | New York, NY | Research Assistant

June 2025 – June 2026

- Developed a modular knot diagram puzzle web interface using Python Flask, HTML, CSS, and JavaScript, implementing puzzle navigation, user instructions, drag-and-drop interactions, piece rotation, and z-index layering.
- Conducted iterative user testing and analyzed performance and interview data to evaluate computational and spatial reasoning, synthesizing findings into an 11-page research paper demonstrating transferable visual language learning.
- Investigated mathematical knot knowledge as a rule-based visual language using a research through design methodology.

Pace University | New York, NY | Research Assistant

October 2024 – May 2026

- Designed an interactive Unity XR environment with 25 modeled knots for an observational user study.
- Trained a Teachable Machine image-classification model on 1,500 images of 3 knot types and integrated it with Python, JavaScript, and HTML to recognize knots through a Meta Quest 3 camera and automatically advance instructional steps.
- Conducted interviews with 5 graphic designers, synthesized qualitative findings, and co-authored a 7-page research paper.
- Coordinated a public projection-mapping installation with 40 students, creating promotional materials and a 90-second Blender animation with custom water simulation and underwater shader while leading technical setup and rehearsals.

DNA Model Management | New York, NY | Fashion Model

August 2017 – May 2025

- Collaborated with leading designers and appeared on covers of major publications including Vogue Italia and Elle USA.
- Modeled in international fashion week runway shows under tight timelines in fast-paced, high-pressure environments.

ACADEMIC PROJECTS

Product Development Capstone: New York Design Factory

August 2025 – May 2026

- Led frontend engineering for the U.S. team within an 11-person international product team, collaborating with Aalto University and Finnish startup Prinsys on a mobile-first IoT leak-monitoring platform.
- Conducted stakeholder interviews and moderated usability testing to design and iterate on 28 high-fidelity Figma screens across 3 core user flows for building owners, maintenance teams, and platform administrators.
- Developed an interactive SVG floor-plan interface in Vue.js to visualize battery-free leak sensor activity in real time.
- Co-designed a reusable design system and service blueprint, delivering a scalable application for continued development.

Network Engineering: Encrypted Chat Application

January 2026 – May 2026

- Engineered a full-stack messaging platform using Flask, Socket.IO, and JavaScript with room-based messaging, direct-message routing, presence tracking, and state synchronization.
- Implemented AES-256-CBC encryption with SHA-256-derived keys, 16-byte IVs, and PKCS7 padding; analyzed 8,000 TCP/WebSocket packets and tested encryption, message delivery, and state synchronization through interruptions.

Low FODMAP Microsoft Access Database Application

August 2024 – December 2024

- Designed a 10 table relational database with an ERD, primary and foreign keys, and interconnected recipe, user, fridge, ingredient, and FODMAP category data supporting 300 recipes across breakfast, lunch, and dinner.
- Developed queries to personalize recipe recommendations and grocery lists based on users' allergies, FODMAP restrictions, selected recipes, and available fridge ingredients, reducing food waste and simplifying diet planning.
- Built an interactive interface with forms and navigation controls, and implemented VBA exports to PDF and Excel.

CERTIFICATION

CITI Program | Social and Behavioral Research

June 2025

- Completed IRB-compliant training in human subjects research ethics and regulatory compliance for user research.

CLUBS & EXTRACURRICULAR

Dean's List : First Honors | Seven House Gallery : Solo Art Show | Pace Women in Tech | Texas State Florists Association : Level 1