

PHOEBE TAYLOR

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EDUCATION

Washington University In St. Louis | John B. Ervin Scholar

May 2028

Bachelor Of Science in Computer Science

Minors: Human Computer Interaction, Chinese

- Relevant Coursework: Visual Principles for the Screen | Introduction to Human Centered Design | Web Development | Video Game Programming | Intermediate Chinese | Object Oriented Software Development | Calculus III | Intermediate Statistics | Data Structures and Algorithm
- Student Organizations: National Society of Black Engineers (NSBE), WashU UI UX Organization, KPOP Dance Team
- Interests: Creative Writing | Motion Graphics | Graphic Design | Guitar / Ukulele | Hip Hop Dance | Video Editing

EXPERIENCE

John B. Ervin Scholars Social Media Committee | St. Louis, MO

January 2026 – Present

Content Creator

- Conceptualize, film and edit TikTok and Instagram content reaching 2,500+ views and 96+ interactions, contributing to videos collectively **surpassing 6,000 total views**
- **Execute multi-platform promotional campaigns** across TikTok and Instagram with committee members to advance program branding and outreach goals
- Create and **distribute Google Forms** to collect student feedback and inform future content planning
- Propose ideas for long-term content planning and audience growth initiatives

WashU's UI UX Organization (WashUX) | St. Louis, MO

November 2025 – Present

Designer

- Redesigned a client website in collaboration with a design team, prioritizing 5 key stakeholder goals to drive strategy and deliver a finalized product **successfully implemented by client**
- Conducted competitive analysis across **2 direct and 1 indirect competitor** to identify usability gaps, synthesizing stakeholder insights to translate business requirements into actionable design improvements
- Progressed designs from **2 low-fidelity wireframes to 5 high-fidelity** interactive prototypes, refining usability and visual hierarchy through iterative feedback cycles

Less Annoying CRM | St. Louis, MD

May 2026 – August 2026

Fellow

- Took initiative to **collaborate directly with the CEO on website redesign initiatives**, creating high-fidelity Figma mockups, participating in company meetings, and engaging in design discussions to communicate ideas, incorporate stakeholder feedback, identify user pain points, and align solutions with business goals
- Built and deployed a personal portfolio using **HTML, CSS, JavaScript, and Three.js**, developing **interactive 3D meshes, custom animations, responsive designs**, and **database-driven functionality** to strengthen integration of creative design and frontend development
- **Strengthened professional communication and collaboration skills** through mentorship, behavioral interview simulations, coffee chats, and networking with software engineers internally and across the industry

The Wexler Group | St. Louis, MO

June 2025 – August 2025

Computational Materials Chemistry Researcher

- Developed and optimized Lennard-Jones atomic system models in Julia for the BasinHopping.jl package, enabling researchers worldwide to predict stable catalyst surface structures and **maximize energy conservation** in industrial chemical production, in collaboration with **4 postdoctoral researchers**
- **Applied Python (NumPy, SciPy, Matplotlib)** for data analysis and visualization, benchmarking 3 optimization methods (BFGS, Gradient Descent, Nelder-Mead) across complex functions to identify BFGS as most efficient optimizer
- Modeled **multi-atom systems in 2D and 3D** using an $N \times 3$ matrix architecture, **visualizing potential energy landscapes** via contour maps and analyzing how **starting-point selection impacts optimization** efficiency and iteration count

SKILLS

UX/UI Design: Information Architecture, UX Strategy, Product Strategy, User Research, Surveys & User Insights, User Testing, Prototyping, Wireframing, Interaction Design, Visual Design, Motion Design, Design Systems

Programming: Figma, Canva, HTML, CSS, JavaScript, Three.js, Vite, Julia, Python, Java, C++, MySQL, PHP, Excel

Tools: Adobe After Effects, Figma, Canva, Github, Jupyter Notebook, phpMyAdmin, MAMP, Microsoft Office, Google Suite, Notion, VS Code

Languages: English, Chinese