

# Mandy Hartman

(434) 906-2696 · mandyhartmandev@gmail.com · [linkedin.com/in/hartmandy](https://www.linkedin.com/in/hartmandy) · [github.com/hartmandy](https://github.com/hartmandy)

Frontend-focused software engineer with 4+ years building production web and mobile applications in React, React Native, TypeScript, Remix, and Next.js. Comfortable across the stack. Currently Senior Software Engineer at Virtu Studios, shipping the studio's flagship project management product and supporting enterprise engagements including Dell.

## EXPERIENCE

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**Virtu Studios** *Jun 2022 – Present*

**Senior Software Engineer** *Jan 2026 – Present*

- Shipping the studio's flagship product (launching summer 2026), a ShapeUp-methodology project management tool for small teams.
- Contributed to web and mobile app releases under the Virtu name across the studio's portfolio of shipped products.
- Drove new client acquisition and engagement scoping for enterprise and institutional clients including Dell; partnered on pitch, delivery, and launch readiness.

**Software Engineer (Contract)** *Jun 2022 – Dec 2025*

- Delivered web and mobile client projects on contract basis, scoping requirements with clients, shaping technical approach, and shipping production releases.
- Founded and shipped **Black Mountain College Yearbook**, a public digital archive built on Remix, TypeScript, and Sanity CMS; sourced and validated 10,000+ records across multiple institutional collection holders. Sold to BMC Museum & Art Center (2024). [bmcyearbook.org](https://bmcyearbook.org)
- Led web and mobile applications for animal welfare under Heron Studio ([heron.studio](https://heron.studio)).
- Founded Visual Archives (2023–2024), a nonprofit providing pro bono engineering consulting to museums and universities including University of Chicago and Clemson. Managed engagements end-to-end from intake through delivery.

**Software Engineer · Sports Card Investor** *Jan 2025 – Dec 2025*

- Shaped product direction in close partnership with product, design, and C-suite stakeholders; translated executive priorities into engineering plans and surfaced tradeoffs back to leadership.
- Led tech debt initiative across web and mobile: scoped work, sequenced delivery, managed team workload, and reported progress to executive sponsors.
- Drove design system consistency and UI/UX direction across high-traffic web and mobile products; contributed to major product discussions as a technical partner.
- Stack: React, Next.js, TypeScript (web); React Native, Expo (mobile).

**Software Engineer III · Jenzabar** *Nov 2023 – Sep 2024*

- Led front-end modernization for chatbot and analytics tools (React, TypeScript, Material UI), improving usability and performance across enterprise applications.
- Reduced code complexity by 70% during major refactor, boosting load speeds and developer agility.
- Established and led an accessibility working group, achieving WCAG compliance and embedding inclusive design practices into the dev workflow.
- Collaborated with AI teams to integrate LLM-based automation into student-facing interfaces.

**UX Researcher · University of South Florida** *Aug 2020 – Dec 2021*

- Designed and ran user research protocols around archival collection discovery; synthesized qualitative findings into design recommendations that drove product pivots and helped secure continued grant funding.

**Earlier Career:** Decade of project-based work across museums and archives, spanning collections systems, vendor and budget management, and public-facing digital deliverables. Clients included Asheville Art Museum, National Crime Museum, Exhibits Development Group, and Blowing Rock Art & History Museum. Details on request.

## EDUCATION

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**M.S., Computer Science** · Clemson University *Expected Dec 2027*

Coursework: AI-Receptive Software Development; Design & Analysis of Algorithms; Bias in Technology; Digital Humanities.

**M.Sc., Library & Information Science** · University of South Florida 2021

Magna Cum Laude · Database Management, Cultural Heritage Preservation through Technology.

**B.A., Liberal Studies** · Florida International University 2016

Cum Laude · Digital Art, Web Design, Art History.

**Certificates & Training:** Project Management, University of Colorado (2026); Python 3 Programming, University of Michigan (2026); React, React Native, and UI/UX bootcamps (2022–2024); Kent C. Dodds advanced React and Remix workshops (2024).

## SKILLS

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**Frontend:** React, React Native, Next.js, Remix/React Router, TypeScript, JavaScript, Tailwind CSS, Expo, Sanity CMS

**Backend & Data:** Node.js, Python, SQL, REST APIs

**Cloud & Tools:** AWS, Azure, Git, Firebase, Google Analytics, Firebase Analytics

**Practices:** Agile/Scrum, ShapeUp, Kanban, Roadmap Planning, A/B Testing, WCAG Accessibility, Code Review, Cross-functional Stakeholder Communication