

SOFA RADKOVA

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EDUCATION

Duke University

Durham, NC

Bachelor of Science, Computer Science (GPA: 3.98/4.00)

May, 2026

Coursework: Educational Technology Practicum, Computer Architecture, Computational Methods in Engineering, User Research Methods, Data Structures and Algorithms, Linear Algebra, Discrete Math

EXPERIENCE

Niantic, Inc.

June 2024 - Present

Software Engineering Intern

- Created aggregate campaign performance dashboards within Niantic's direct marketing and mobile games player communication software, facilitating tracking of campaign progression and outcomes
- Integrated efficient tagging functionality into the marketing campaigns database using **Angular**, **RxJS**, and **Tailwind** to enable simplified player segmentation and targeted outreach

InSPIre Lab at Duke University

January 2024 - Present

Human-Computer Interaction Research Assistant

- Lead a team, conducting qualitative research on digital privacy&security advice shared on Twitter during police brutality protests in France, aiming to provide safety guidance to future novice protesters
- Analysed over 650 data points, developing a comprehensive codebook to systematically interpret data patterns

Volga-Dnepr Group

August - November 2023

Software Engineering Intern

- Migrated a web app used to manage 110+ flights monthly with filtering, sorting, and column-toggling functions from Angular to **Vue** & **Tailwind** resulting in streamlined developer productivity and improved code maintainability
- Introduced role-based authentication and effective state management to save users' filter settings between sessions
- Performed multiple design iterations of the flight management messaging system in **Figma** while gathering feedback from stakeholders through user testing to elevate the UX and create an easily scannable interface

PROJECTS

Financial Management App - PennyPro | *SvelteKit, Tailwind, Chart.js, Figma*

September 2023

- Ideated and developed a web app that empowers college students with financial insights by analyzing their bank data, suggesting personalized goals, and offering valuable budgeting advice
- Led front-end development in a hackathon team, creating 5 responsive user interfaces, including a fully-functioning personalized user dashboard and **Chart.js** budget visualization based on the data from backend
- Employed dynamic data binding techniques and crafted reusable components using **SvelteKit** and **Tailwind** with DaisyUI library to facilitate rapid development in under 36 hours, maintaining high code quality and consistency

Social Media App For Fiber Artists | *React, Next.js, MongoDB, Tailwind*

August 2023

- Developed a full-stack application in **Next.js** with Google authentication through NextAuth, file-based routing, tutorial videos fetched through YouTube API, posting and liking functionality, and content search capabilities
- Using **MongoDB**, enabled efficient storage and retrieval of users' data and posts through REST API endpoints

LEADERSHIP

FEMMES+ Hackathon Track Lead for Web Development

November 2023

- Designed and conducted a series of 4 hour-long workshops to empower high-school females by teaching them hands-on basics of HTML, CSS, JavaScript, culminating in the collaborative creation of fully-functioning websites

Notion Campus Leader

September 2023 - Present

- Facilitated Notion knowledge exchange by hosting workshops in collaboration with major Duke tech organizations

TECHNICAL SKILLS & EXTRACURRICULARS

Languages: Java, Javascript, Typescript, HTML, CSS, Python, R, C

Libraries & Frameworks: Angular, React, Next.js, Vue, RxJS, Tailwind, Framer Motion, pandas, NumPy, Matplotlib

Other Skills: User Research, UX/UI design, Git, Figma, LaTeX

Extracurriculars: International Association (VP of Design), Duke Technology Scholars (Explore Lead), Women in Tech