

Yoonje Lee

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Education

Virginia Tech

Master of Computer Science and Application

Expected May 2026

BS in Computer Science & HCI Minor

Expected May 2025

- GPA: 3.9/4.0
- President's List (Fall 2022) and Dean's List (Spring 2023, Fall 2023, & Fall 2024)
- **Coursework:** Software Engineering, Computer Graphics, Computer Systems, HCI Capstone

Technologies

C, Java, Python, TypeScript, JavaScript, Bash, Linux/UNIX, React, Next.js, Three.js, Node.js, Tailwind CSS, SQL, MySQL, PostgreSQL, SQLite, MongoDB, REST API, Docker

Experience

Software Engineer Intern

Remote

Versy (Versy Talks)

May 2024 – Aug 2024

- Engineered a real-time notification & upvote system using Next.js and TypeScript, increasing user debate participation by 75%
- Revamped the blog UI/UX using Tailwind CSS and Next.js, resulting in a 58% rise in average post views and 114% spike in peak views within two weeks
- Developed an automated password reset flow with email verification using Prisma and PostgreSQL, reducing manual reset requests by 10+ users monthly
- Implemented responsive design optimizations with Tailwind CSS, boosting mobile user engagement by 33%

Undergraduate Teaching Assistant

Blacksburg, VA

Virginia Tech

Aug 2023 – Present

- Served as a TA for four semesters, assisting in Intro to Computer Organization (C) and Data Structures & Algorithms (Java)
- Held office hours 9 hours a week to help 100+ students with coding assignments & homework
- Promoted to Lead TA based on strong performance and trust from the professor

Projects

Diary Quest

Present

- Developing a web-based diary study platform using React, Python, and SQLite to improve student reflection and engagement

RewardBot

Dec 2024

- Built a gamified student reward system using the MERN stack, increasing assignment completion rates
- Integrated Canvas API to dynamically retrieve and visualize student assignment data for real-time progress tracking
- Designed and optimized a RESTful backend using Node.js, Express, and MongoDB, enhancing data retrieval speed and frontend responsiveness
- Engineered a Chrome extension with React and Node.js to display real-time assignment deadlines

Interactive Data Visualization Tool

Dec 2023

- Engineered a dynamic data visualization platform using React, Node.js, and MongoDB, enabling seamless dataset interaction via an intuitive UI
- Implemented Brushing and Linking techniques in SVG and MUI, enabling synchronized data manipulation across an editor, bar chart, and scatter plot, improving user engagement and comprehension
- Developed real-time data editing and validation mechanisms using Node.js and MongoDB, ensuring data integrity by detecting and handling invalid values
- Empowered data-driven decision-making by developing SVG-based interactive charts in React and MUI, delivering real-time visual insights

Guardian Tales

Mar 2023

- Developed a personalized audiobook platform using Streamlit and Azure Cognitive Services, enabling guardians to create emotionally engaging audiobooks for children
- Implemented DiffSVC for advanced voice processing and TTS synthesis, significantly improving speech naturalness and clarity
- Engineered a Python-based pipeline to convert video files into high-quality voice files, streamlining audiobook production
- Collaborated with a team of first-time hackathon participants, winning the Best Beginner Award at HooHacks 2023