

Yoonje Lee

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Education

Virginia Tech

Master of Computer Science and Application

Expected May 2026

BS in Computer Science & HCI Minor

May 2025

- GPA: 3.9/4.0
- **Coursework:** Software Engineering, Computer Graphics, Computer Systems, HCI, GUI, Data Structures and Algorithm, Machine Learning, Information Visualization, Database Management

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 – May 2025

- 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

- Designed and advanced a web-based platform enabling students to document experiences and engage in structured reflection
- Integrated analytics dashboards and visualizations (word clouds, thematic maps, collages) to support deeper insights
- Implemented AI-driven theme extraction and group formation, supporting a four-phase Jigsaw learning workflow for collaborative reflection

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 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

Honors & Rewards

- Member, Phi Kappa Phi Honor Society (2025–Present)
- President's List (Fall 2022)
- Dean's List (Spring 2023, Fall 2023, Fall 2024)

Skills

Computer Programming: C/C++, Java, Python, Flask, TypeScript, JavaScript, Bash, Linux/UNIX, React, Next JS, Three JS, Node JS, Express JS, Tailwind CSS, SQL, MySQL, PostgreSQL, SQLite, MongoDB, REST API, Docker, RISC-V, HTML, CSS, Pascal, Scala, x86 Assembly, Rust

Technical Skills: Git, Github, Gitlab, Docker, Azure, SOLIDWORKS, AutoDesk, AutoDesk Inventor