# Ritvik Neerattil

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Computer Science undergraduate skilled in C++, Java, Python and JavaScript with hands-on full-stack development (React, Node.js, SQL). Proficient in RESTful API design, Docker, Agile/Scrum, TDD, interprocess communication, AI integration (OpenAI API) and prompt engineering. Strong communicator, collaborative team player and adaptive problem-solver.

## EDUCATION

### Bachelor's degree in Computer Science

University of South Carolina • GPA: 3.592                                    08/2023 - 05/2027

Relevant coursework: Artificial Intelligence, Data Structures & Algorithms, Operating Systems, Software Engineering, Intro to Comp. Architecture, Prog. Lang. Structures, Adv. Programming Techniques, Algorithmic Design I & II, Unix Fundamentals, Digital Logic Design

## PROJECTS

### Columbia Custom PCs Website                                    09/2024 - 05/2025

- Designed and deployed a full-featured website using React and Tailwind, focusing on responsive styling and maintainable UI
- Developed a backend system with Node.js and Express to handle commission submissions and serve structured JSON to the frontend
- Integrated SQL/MariaDB to efficiently store, manage, and retrieve customer commission requests and PC builds listed on the website
- Contributed to business operations by building custom PCs hands-on, helping scale the business to over ~$100,000 in total revenue

### Language Learning Program

- Developed a Language Program using Java & JavaFX in a four-member team, focusing on interactive features, user engagement etc
- Designed & implemented modular data loader/writer components in order to efficiently manage user progress storage and retrieval
- Optimized file I/O operations to significantly enhance performance to ensure fast reliable data access while preserving data integrity
- Collaborated with team members to integrate features, test and debug issues, and polish the application for smooth user experience

### AI-Powered Note Summarizer

- Built a web app using Python, Flask, and OpenAI API to summarize long-form notes into concise, readable content using AI models
- Engineered seamless file input and text handling on the frontend with JavaScript, ensuring smooth user flow and minimal latency
- Integrated API logic to extract core insights and highlight key points, delivering quick, digestible summaries through UI components
- Focused on modular backend design, error handling, and response formatting to enhance the reliability and usability of the platform

## LEADERSHIP & INVOLVEMENT

### Association for Computing Machinery                                    08/2024 - Present

Design Lead

- Created visual assets for events, workshops, social media to enhance club branding & increase overall engagement across platforms
- Skills Developed: Graphic design, branding, teamwork, leadership, communication, creative problem-solving, project management
- Impact: Improved club visibility and event participation through cohesive and engaging visual design across various digital channels

### Cybersecurity Club                                    08/2023 - Present

Member

- Identified and fixed critical security vulnerabilities while actively participating in collegiate cybersecurity competitions
- Skills Developed: Troubleshooting, analytical problem-solving, applying security protocols, and fostering strong team collaboration
- Impact: Gained valuable hands-on cybersecurity experience, significantly improving technical skills through competitive challenges

## SKILLS

**Programming Languages:** C++, Java, Python, SQL, JavaScript, HTML, Prolog, Haskell

**Tools & Technologies:** React, NodeJS, TailwindCSS, JavaFX, OpenAI API, Flask, Git, Figma, VS Code, Tableau, Linux, Docker

**Practices & Methodologies:** REST APIs, Cybersecurity, Testing, Agile Development, Prompt Engineering, API Integration