

Ritvik Neerattil

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EDUCATION

Bachelor's degree in Computer Science, Minors: Data Science, Cybersecurity

University of South Carolina • GPA: 3.642

Columbia, SC • 08/2023 - 05/2027

Relevant Coursework: Artificial Intelligence, Data Structures & Algorithms, Operating Systems, Cybersecurity Operations, Computer Networks, Software Engineering, Big Data, Comp. Architecture, Prog. Lang. Structures, Adv. Prog. Techniques, Algorithmic Design I & II

WORK EXPERIENCE

UofSC AI Institute

09/2025 - Present

Undergraduate Research Assistant • Part-time

Columbia, SC

- Developed Python search and training workflows in an AI research lab using PyTorch, NumPy, Linux, Git, and SLURM.
- Profiled and refactored pipeline bottlenecks, cutting a key step by 99% and runtime from 50 to 26 minutes.
- Benchmarked pipeline variants with runtime, iteration count, and solve rate to guide engineering tradeoffs.
- Used AI coding tools with debugging and testing workflows to speed implementation, experiments, and refinement.

Columbia Custom PCs

06/2025 - 08/2025

Full-Stack Web Developer • Part-time

Columbia, SC

- Designed and deployed a website using React and Tailwind with responsive layouts and maintainable UI components.
- Built a Node.js and Express backend with MariaDB to manage commission requests and PC build listings.
- Structured commission and inventory data for efficient storage, retrieval, and frontend delivery.
- Supported custom PC sales by handling customer communication, pricing, and delivery through Facebook Marketplace.

PROJECTS

StudyHub | LMS-Integrated Student Productivity Platform

- Built a full-stack web app to track courses, assignments, deadlines, and weekly workload in one centralized dashboard.
- Designed APIs and database models for course data, task tracking, calendar views, and smart prioritization logic.
- Added AI planning and LMS sync flows while preserving flexible manual editing for reliable task management.

CampusEvents | Kotlin Android Campus Event Aggregator App

- Built a Kotlin and Jetpack Compose app to browse campus events, club meetings, and saved event details.
- Integrated Firebase Firestore with a bundled JSON fallback to keep the event feed functional before backend setup.
- Designed ViewModel-based state, filtering, and DataStore persistence in a three-person Scrum team environment.

Language Learning Program | JavaFX Language Learning Desktop App

- Developed a Java and JavaFX language-learning app in a four-member team focused on interactive user features.
- Built modular data loader and writer components to manage user progress storage and retrieval efficiently.
- Optimized file I/O and collaborated on testing, debugging, and polish to improve reliability and user experience.

LEADERSHIP & INVOLVEMENT

Lead Designer of ACM @ UofSC

08/2024 - Present

- Created visual assets for events, workshops, and social media to strengthen branding and improve engagement.
- Collaborated with club leadership to promote technical events through clear, consistent, and engaging design.
- Improved club visibility and event participation through cohesive branding across digital platforms.

SKILLS

Programming Languages: Python, Java, SQL, C++, JavaScript, HTML

Tools & Technologies: Claude Code, GPT Codex, Gemini API, Github, NodeJS, JavaFX, React, Pytorch, Git, Figma, Tableau, Linux, Docker

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