

Vincent Chu

21vincentchu@gmail.com | St. Louis, MO | (314) 347-2150 | github.com/21vincentchu | linkedin.com/in/vincent-chu1/

EDUCATION

University of Missouri, Columbia

Expected Graduation: December 2025

B.S. Information Technology | GPA: 3.85/4.00 | Dean's list (*Aug 2023-Jan 2025*)

St. Louis Community College

Graduated: December 2022

A.A General Transfer studies | GPA: 3.93/4.00 | Dean's List (*Aug 2021-May 2022*)

SKILLS

- **Development & Tools:** IntelliJ IDEA, Visual Studio, Xcode, Jupyter Notebook, Docker, Github, Git Version Control, Agile Android studio, Jira, Flask, Ollama, Open webUI, RESTful API, Notion, Analytical Documentation, Terminal, Tailscale
- **Programming Languages:** Java, C#, Python, SwiftUI, Bash, HTML, CSS, SQL, MongoDB
- **Data Science & ML Libraries:** Pandas, NumPy, Keras, TensorFlow, Scikit-Learn
- **Languages:** Native proficiency in English and Vietnamese

WORK EXPERIENCE

Student Researcher for *XR VR Team* | University of Missouri Columbia | Columbia, MO

Feb 2025 - Current

- **AI Infrastructure:** Developed a local AI server infrastructure supporting 10+ users, integrating a custom Large Language Model with Ollama and OpenWebUI to power a VR-based semiconductor lab assistant.
- **Data Modeling:** Collected and preprocessed domain-specific data, applying augmentation techniques and tuning model parameters and weights to accurately answer graduate-level questions on equipment, procedures, and safety.
- **RAG Implementation:** Conducted in-depth research and deployed Retrieval-Augmented Generation (RAG) using embedding and reranking models, and custom-formatted technical documentation to enable accurate, context-aware response

Peer Learning Assistant | University of Missouri Columbia | Columbia, MO

June 2024 - Current

- **Student Support:** Provide office hour support to over 250+ students by promptly(<1 hour) answering questions related to course material and assignments
- **Grading Responsibility:** Responsible for grading 4 of the following courses: Python, Networking and Security, SQL & Databases, and C# Programming

Student Researcher for *CoreAutism Team* | University of Missouri Columbia | Columbia, MO

Feb 2024 - Aug 2024

- **Research Coordination:** Managed 20+ participant onboarding, 2,000+ lines of patient data, inventory logistics, and technical data analysis for an app tracking voice and heart rate data from individuals with autism, contributing to visualizations that helped doctors develop personalized treatment plans
- **Documentation Initiative:** Created 2 debugging frameworks and created analytical context documentation (>5,000 words) for previously undocumented and new processes to streamline future team onboarding
- **Knowledge Transfer:** Led training sessions on statistical concepts, analytical frameworks, data cleaning, onboarding 2 new researchers and ensuring knowledge continuity across the research project
- **App Testing:** Optimized and led UX testing methodologies including non-functional and functional testing, identifying 45+ critical bugs to developers, maintaining application stability for 20+ users in continuous integration/deployment environment
- **Study Coordination:** Led 20 participant and parent communications with 90% retention, onboarding individuals onto the study with guidance, ensuring proper setup and usage to maximize participant engagement

Apprentice in Training | Accenture Federal Services | St. Louis, MO

June 2022 - Aug 2022

- **Database Operations:** Applied SQL querying techniques, filtered and manipulated data using string, like, and group by functions within experimental databases
- **Java Development:** Elevated coding proficiency through hands-on implementation of the collections, static inner and outer classes, lambdas, anonymous classes, override methods, interfaces, and exceptions in Java programming
- **Agile Methodology:** Developed with agile and scrum software development methodologies with Java demonstrating clear and high quality code, collaborating and coordinating with team members