

# Vincent Chu

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## EDUCATION

### University of Missouri, Columbia

Expected Graduation: Dec 2025

Bachelors of Science (B.S) Information Technology | GPA: 3.77/4.00 | Dean's list (*Dec 2022-May 2025*)

### St. Louis Community College

Graduated: Dec 2022

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

## SKILLS

**Programming Languages:** Java, C#, Python, SwiftUI, Bash, HTML, CSS, Javascript, SQL (MySQL), MongoDB

**AI/ML & Data Science:** Pandas, NumPy, Keras, TensorFlow, Scikit-Learn, Pytorch, Unstructured, ChromaDB, OpenAI APIs, Embeddings, RAG

**Development & Tools & Infrastructure:** Docker, Git/Github, AWS, Flask, RESTful APIs, Ollama, Open WebUI, Tailscale, Terminal/CLI, CI/CD, VS Code, IntelliJ, ServiceNow, Jupyter Notebook, Technical Documentation, UI/UX Testing, Jira, Agile

**Business & Process:** Process Automation and Optimization, System Integration, Gap Analysis, Workflow Design, Root Cause Analysis

**Certificates:** U.S. Dept. of Education Center of Excellence: AI-Empowered Spatial Computing Micro-Credential

## RESEARCH & PROJECTS

### AI Student Researcher | University of Missouri Columbia | *Columbia, MO*

Feb 2025 - Present

- **AI Infrastructure:** Engineered Flask-based RAG API server with ChromaDB vector database integration, OpenAI API's, serving domain-specific LLM responses to VR lab application via RESTful endpoints with Docker and Tailscale on the Nvidia Jetson for 20+ users
- **Data Modeling:** Built end-to-end document processing pipeline using Unstructured library for multi-format parsing (PDF/DocX/PPT), implementing semantic search, context extraction and OpenAI embedding model integration achieving 95% accuracy
- **RAG System Architecture:** Designed automated eval framework as LLM judge with ground-truth datasets to measure retrieval accuracy, response latency, and hallucination rates with average response times of 1.8 seconds, with 90% of all requests under 3 seconds

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

Feb 2024 - Aug 2024

- **Technical Analysis:** Evaluated and analyzed over 2,000+ data points from voice and heart rate data using AWS, contributing to visualizations that directly informed the development of personalized treatment plans by medical professionals
- **App Testing:** Conducted UX non-functional and functional testing, identifying 45+ critical bugs to developers, maintaining application stability for 20+ users in a CI/CD environment
- **Documentation Initiative:** Developed over 5,000 words of technical documentation and produced onboarding video training materials, establishing standard reference materials for current team members and future contributors

## WORK EXPERIENCE

### Asset Manager Intern | Maritz | *St. Louis, MO*

May 2025 - Aug 2025

- **Solution Engineering & ROI Analysis:** Optimized logistics through process automation and system optimization to reduce asset loss and operational costs, projecting \$20,000+ in annual savings with a 156% return on investment (ROI)
- **System Integration:** Established ServiceNow specifications and workflow automation requirements for seamless data flow between ServiceNow platform, ShipEase CORE plugin, managing 6,000+ assets across the company

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

June 2024 - Present

- **Grading Responsibility:** Assisted 250+ students, graded and managed the following courses: Python for Machine Learning, Software Engineering, SQL Database Systems and Applications, and C# Programming

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

June 2022 - Aug 2022

- **Java Development:** Implemented Java software components in an agile development pipeline with CI/CD practices to deliver reliable code