Yusef Bayyat

bayyatyusef@gmail.com | linkedin.com/in/bayyat | github.com/YusefB | Tampa, FL

EDUCATION

University of South Florida

B.S. Artificial Intelligence | Expected May 2028

EXPERIENCE

IT & Infrastructure Technician (Student Assistant)

USF Bellini College of AI, Cybersecurity & Computing | *Sep. 2025 - Present*

- Develop reusable Ansible playbooks and Bash automation for patching and configuration across 55 Ubuntu and RHEL servers.
- Implemented inventory cache invalidation and refresh logic across a 19-system Linux environment to resolve stale application state and reduce manual restarts.
- Identified and corrected a configuration defect that left 50 OS packages unapplied, restoring reliable scheduled updates.
- Support Linux and Proxmox environments for AI/HPC research; troubleshoot compute, network, access, and endpoint issues across 130+ Jira-tracked requests.

Software Engineering Lab Participant

ReliaQuest Labs | *Four-week track, 2026*

- Participated in a five-person student team developing a Dynamic Reference List for customers and internal engineers using Java, Spring Boot, and PostgreSQL.
- Team work spanned backend functionality, database design, access permissions, search, GitLab collaboration, merge request reviews, and integration troubleshooting.

Undergraduate Research Assistant - SPRAI Lab

University of South Florida | *Oct. 2025 - May 2026*

- Evaluated robustness of LLM-based vulnerability detection across training data, augmentation strategies, and realistic source-code transformations.
- Developed adversarial transformations including identifier renaming, dead-code insertion, and function inlining/outlining; explored LLM fine-tuning and Code Property Graph approaches.

PROJECTS

Syjil | syjil.com

Next.js, React, TypeScript, Zustand, Tailwind CSS | *May 2026*

- Designed and deployed a full-stack project management application with Kanban boards, backlogs, ticket workflows, analytics, and configurable project settings.
- Built typed domain models and persistent application state; tested ticket creation, state transitions, persistence, and save/restore workflows with Vitest, jsdom, and Testing Library.

SoilSaint | github.com/YusefB/SoilSaint

Python, Flask, React, MySQL, OpenAI API | *Jan. 2025*

- Built an AI-powered application translating natural-language farming questions into database queries.
- Engineered a Python/Flask pipeline integrating the OpenAI API with MySQL and returning structured results through a React interface.

TECHNICAL SKILLS

Languages: Java, Python, TypeScript, JavaScript, SQL, Bash, HTML/CSS

Development: React, Next.js, Flask, Spring Boot, Node.js, REST APIs, Zustand, MySQL, PostgreSQL

Tools & systems: Git/GitHub/GitLab, Vitest, Testing Library, Vercel, Jira, Linux, Proxmox, Ansible

AI & security: LLMs, prompt engineering, adversarial code augmentation, static analysis, Code Property Graphs