

UPAMANYU (UPI) SHANKER

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EDUCATION

Florida State University

Anticipated May 2028

Dual B.S. in Computer Science and Finance, Minor in Mathematics

Relevant Coursework: Intro to Programming in C++/UNIX, Data Structures and Algorithms I & II, Computer Organization I, Advanced Programming with Java, Databases, Operating Systems, Deep & Reinforcement Learning

SKILLS AND CERTIFICATIONS

Languages: Python, Java, TypeScript, JavaScript, C, C++, SQL, HTML, CSS

Frameworks & Libraries: React, Node.js, Next.js, Spring Boot, REST APIs, pandas, NumPy

Tools & Platforms: AWS, Git, PostgreSQL, Supabase, Linux/Unix, Tableau, Power BI, Figma

AI Tools: GitHub Copilot, Cursor, Claude, ChatGPT, OpenAI API, LangChain, Hugging Face

Concepts & Practices: Data Analytics, Machine Learning, NLP, Microservices, Agile (Scrum), Software Testing, Cloud

Certifications: GitHub Foundations (GitHub) | AI Fundamentals (IBM) | Data Fundamentals (IBM)

WORK EXPERIENCE

FSU Information Technology Services – *Software Engineer Intern*; Tallahassee, FL

Aug. 2025 – Present

- Built a searchable Java (GWT) directory of **every internet domain FSU owns** and security contacts, **speeding security incident response**
- Building a **check-in system** for user visits and appointment scheduling across university departments
- Delivered multiple department applications end-to-end, cutting manual processing time by **57%**

St. Jude Children's Research Hospital – *AI Engineer Intern*; Memphis, TN

Jun. 2025 – Jul. 2026

- Delivered clinical reports by querying the **Epic EHR system** (used by ~60% of hospitals in the US)
- Trained a custom AI model** that turns natural-language prompts into dashboards for clinical teams, cutting reporting time by **43%**
- Automated reporting workflows over patient and operational data in **Python and SQL**, improving accuracy

Campus Sublet – *Chief Technology Officer*; Tallahassee, FL

Mar. 2026 – Present

- Launched a **mobile sublet marketplace** for FSU students, scaling to **150+ users** on React Native/Expo + Supabase
- Built **real-time messaging**, push notifications, and email-verified auth across **iOS and Android**
- Designed the **end-to-end data architecture**: 5+ tables with **row-level security** for listings, chats, and photos

PROJECTS

Blackjack AI (C++17, Q-Learning, Monte Carlo, WebAssembly) · [Demo](#) | [Code](#)

Aug. 2025

- Trained Q-Learning and Monte Carlo agents over **2M episodes** to within **~0.01 units/hand** of optimal strategy
- Fixed reward-shaping/learning-rate bugs worth **~40% EV**; shipped to **WebAssembly** for a browser demo

Statline (Next.js, TypeScript, SQLite, Docker) · [Demo](#) | [Code](#)

Jul. 2025

- Built a Next.js app to search **every NBA player-game in league history** by custom stat-range filters
- Ranked matches by a **dynamically generated SQL** query; deployed as a **Dockerized** read-only API

Interactive FSU Crime Map (Python, pandas, geopy, Leaflet) · [Demo](#) | [Code](#)

Mar. 2025

- Built a Python pipeline to scrape, clean, and geocode FSU's daily crime log using **AI (ChatGPT + Claude)**
- Published as a static **Leaflet** site with filters, search, and stats, auto-refreshed daily via **GitHub Actions**

LEADERSHIP EXPERIENCE

Management Leadership for Tomorrow – *Career Prep Fellow*

January 2026 – Present

- Selected for a **competitive** 18-month leadership development program with structured coaching and mentorship

Lambda Phi Epsilon – *Webmaster & Events Chair*

June 2026 – Present

- Coordinate chapter events and maintain the **fraternity website**, driving member turnout

CompNeuroSociety at FSU – *Vice President & Webmaster*

May 2025 – May 2026

- Oversaw society operations and strategic planning as **Vice President**, developed and maintained org website

Association for Computing Machinery FSU Chapter – *Webmaster*

August 2025 – May 2026

- Maintained ACM at FSU's WordPress site for **1000+ members**, handling content, plugins, and security