

# Pranav Kumar Soma

FORWARD DEPLOYED ENGINEER

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## EDUCATION

### M.S. Computer Science, UC San Diego

Dec 2026 (expected)

GPA 4.00 • Jacobs School of Engineering

### B.S. Computer Science, UC San Diego

Dec 2025

GPA 3.96 • Cum Laude, CSE Department Honors, Provost Honors (all quarters)

**Coursework:** Data Systems for ML, Theory of LLMs, Statistical NLP, Search & Optimization, Software Engineering, Computer Vision, ML Algorithms, Design & Analysis of Algorithms, Operating Systems.

## EXPERIENCE

### Software Engineer Intern | ServiceNow

Jun–Sep 2025

AI Voice Agents, IT Service Management • **Technical Skills Award** · top of 800+ interns

- Owned end-to-end migration of the enterprise AI Voice Agents platform (AWS Lex V1→V2); **shipped to production & validated live with Disney+**, unblocking deployments for ITSM customers (Disney+, military, universities, enterprise)
- Re-architected the NLU pipeline across 8 intents · **75% lower response latency**; built a dynamic post-incident “wrap-up” modal (UI + backend routing) for incident filing. **Return offer received**

### AI Engineer & Agentic Systems Lead | Laboratory for Emerging Intelligence, UCSD

Apr 2025–Present

- Built & **deployed** a Python AI Tutor to 3 universities (UCSD, SDSU, Cal Poly Pomona) · **8,000 students / 8 courses, 64% fewer TA hours, 87% higher engagement** (A/B tested)
- Lead a **Teradata-funded** agentic-AI platform for 7,000+ users; custom **MCP servers** over UCSD APIs + a deterministic workflow executor, gathering requirements directly from staff & faculty stakeholders

### Software Engineer Intern (Intern Lead) | Work4Flow

May–Dec 2024

- Led a 6-intern team to ship **GenAI Observer** (LLM prompt-evaluation) and a ServiceNow↔Smartsheet (SPM) integration; both **approved by the PM for customer deployment**
- Built customer-facing GenAI chatbots on ServiceNow CSM; ran client outreach, requirements gathering & developer-community enablement

### Engineering Manager | Triton Software Engineering (Spay.LA)

Sep 2024–Jun 2025

- Led 11 developers building a MERN fundraising & legislative platform for a live client · scoped requirements with stakeholders, owned delivery end-to-end; platform **raised \$75K** (spay.la)

## SELECTED PROJECTS

- **ORCA · AI Music Production** (*Best Project, SDTC: 1 of 30 from 200+; SAIRS 2025*) · full-stack app; OpenCV + neural source separation, CNN audio-to-score; **98% accuracy**. Flask, Docker, React
- **Union Station Homeless Services** · React listing platform w/ RegEx validation & state machines, SheetJS/MongoDB bulk exports for LA's sole housing provider
- **BioVeritas** · AI platform evaluating logical rigor & authenticity in biological research via retrieval/context systems

## LEADERSHIP

**Co-Founder & President**, Real World AI Network (2026–Present) · founded **7,000+ student** federation across UCSD's engineering, data-science & business schools driving AI research & entrepreneurship.

**Founding Board Member & VP External Affairs**, University AI Alliance · built nation's largest student-led frontier-tech network (MIT, Stanford, Caltech, Cornell); engaged VCs (a16z speedrun, Bain Capital Ventures, Techstars) & execs from Google & Meta.

**President**, CSE Society @ UCSD (100+ members) · **Engineering Manager**, Triton Software Engineering · **Awards:** YC Startup School 2026, National Merit Finalist, USACO Silver.

## TECHNICAL SKILLS

**Languages:** Python, Java, JavaScript, TypeScript, C++, C, Swift, Kotlin, SQL, ARM-32 Assembly, HTML/CSS, Bash

**Web & Full-Stack:** React, Node.js, Express, FastAPI, Flask, Django & Django REST, MERN, React Spring, SheetJS, Firebase, Google OAuth, REST APIs

**Cloud, Systems & Data:** AWS (Lex, Lambda, CloudFormation), Docker, Git/GitHub, Maven, Gradle, Linux; MongoDB, PostgreSQL, MySQL; NumPy, Pandas, GeoPandas, parallel computing

**ML & AI:** PyTorch, TensorFlow, scikit-learn, XGBoost, OpenCV; LLM fine-tuning (LoRA, SFT, RLHF), RAG & GraphRAG, LLM agents & MCP, NLP/NLU, computer vision; Ollama, Qwen, Amazon Lex, Now Assist

**Enterprise, Tools & Practices:** ServiceNow (ITSM, CSM, SPM), UI Builder, Smartsheet, Windsurf, Android Studio, Xcode, Jupyter, JUnit, RegEx, Agile/Scrum, system design, ROS, WPILib, LaTeX, Microsoft Office, Google Workspace