

Suhaas Achanta

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EDUCATION

The Pennsylvania State University

Class of 2025

College of Engineering

Bachelor of Science in Computer Science

Minor in Business

RELEVANT COURSEWORK

Data Structures · Object-Oriented Programming · Algorithms · Systems Programming · Operating Systems & Networks · Database Systems · Machine Learning · Artificial Intelligence · Cybersecurity · Web Development

TECHNICAL EXPERIENCE

Reality AI Lab

Remote/ San Francisco, CA

Generative AI Engineer

March 2025- Present

- Built educational tools like the Presentation Generator and Image Generator using FastAPI, Vertex AI, and Gemini 2.0 Pro, including prompt enhancement, safety filtering, and content relevance modules.
- Conducted benchmarking across tools (DALL-E 3, Canva, etc.) to guide model selection for safe educational use.
- Currently developing a Research Summarizer app using LangChain, Next.js, and Google Gemini, focused on summarizing long documents/URLs into clean, accurate overviews.
- Architecting with RAG pipelines, LangChain agents, and planning future features like file upload, user accounts, and marketplace integration.

Bell, Textron

Fort Worth, Texas

Software and Cyber Security Intern

June-August 2024

- Engineered Python data pipelines and web dashboards for BECA, Bell's in-house AI engine, reducing inference latency by 30% and enabling real-time insights.
- Automated legal-hold software deployment to 2,000+ endpoints via PowerShell & PDQ Deploy, cutting manual effort by 80%.
- Migrated on-premises file shares into Azure DevOps Git repos and scripted Python workflows for automated permission management, ensuring compliance and auditability.
- Designed a service-account password prefix system to detect and track exposed credentials across platforms.
- Developed Informatica ETL workflows with OAuth-secured integrations to Salesforce; configured Splunk alerts for admin-group anomalies and conducted CyberArk security audits.

Celkon

Hyderabad, India

Software Development Intern

May- August 2023

- Developed and optimized core iOS features using Swift and Xcode Instruments, improving app launch times and runtime performance by 25%.
- Managed the Git repository and introduced Asana for sprint planning, boosting on-time feature delivery by 30%.

WebileApps

Hyderabad, India

Mobile App Development Intern

April – August 2021

- Contributed key features to the Gift-Effects iOS app alongside a team of five, refining code to meet functional requirements.
- Led testing and debugging efforts to improve app stability and collaborated with clients in weekly calls to iterate on UI/UX enhancements.

Projects

Dynamic Memory Allocator | C

<https://gitfront.io/r/suhaas55/uziwxGhpREse/MemAlloc/>

- Developed a dynamic storage allocator for C programs, implementing custom versions of malloc, free, and realloc functions.
- Designed and implemented a heap consistency checker to ensure the integrity of the heap, checking for issues like overlapping allocated blocks and invalid pointers.
- Created an allocator that is correct, space-efficient, and fast, with 16-byte alignment for allocated blocks.

Concurrency Synchronization Channel | C

<https://gitfront.io/r/suhaas55/Pf5APUKi8ZEV/Concurrency/>

- Created a channel for message passing to enable synchronization among multiple clients, supporting both blocking and non-blocking send/receive operations.
- Implemented functions for creating, sending, receiving, and destroying channels, ensuring efficient and correct communication between threads.
- Designed the channel to handle multiple concurrent senders and receivers, optimizing for correct functionality and avoiding CPU wastage.

LEADERSHIP EXPERIENCE

14 Reels Entertainment

Hyderabad, India

Production Manager

May-July 2022

- Oversaw filming and post-production workflows for a 150-person multimedia team, streamlining operations to boost efficiency by 25%.

Sumo Biscuits

Telangana, India

Manager Intern

July – August 2022

- Partnered with leadership in an FMCG manufacturing environment to redesign processes, delivering a 150% increase in operational efficiency and substantial cost savings.

TECHNICAL SKILLS

Languages: Python, C/C++, Java, Swift, HTML/CSS, JavaScript, SQL, PowerShell

Developer Tools: Git, Azure DevOps, VS Code, Xcode, Docker

Technologies/Frameworks: FastAPI, LangChain, Next.js, Vertex AI, Gemini 2.0, RAG, Splunk, CyberArk, Informatica, PostgreSQL

SKILLS/AWARDS

Proficient in: English, Telugu, Hindi; **Conversational in:** Sanskrit

Awards: Fall 2022 Dean's List **3.91/4.00 GPA**, Spring 2023 Dean's List **3.53/4.00 GPA**