

SIDDHARTH PRAKASH

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EXPERIENCE

Software Engineer, Couchbase (AI-as-a-Service Team)	Oct 2025 (Mid) – Present
- Working on AI-as-a-Service systems enabling scalable agentic workflows	
- Building internal tools and automation pipelines to improve developer productivity	
- Collaborating with cross-functional AI and platform teams to ship production-grade features	
Software Engineer, Keysight Technologies	Aug 2025 – Oct 2025 (Mid)
- Converted from R&D Intern to Full-Time Engineer based on performance	
- Continued development on AI-driven analysis systems and protocol automation tools	
- Collaborated with CSG Wireline NT and Services team on L2 & L3 protocol workflows	
R&D Intern, Keysight Technologies	Feb 2025 – Jun 2025
- Built innovative side projects including AI-powered analysis systems and intelligent recommendation engines; filed an IP (intellectual property)	
- Automated 471+ attributes across multiple networking protocols	
- Worked with CSG Wireline NT and Services team on L2 & L3 protocols	
- Built a custom Wireshark dissector	
AI Intern, LogoJech Technologies	Jun 2023 – Jul 2023
- Revamped a facial recognition system using OpenCV and dlib, reducing memory usage by 20%	
- Integrated model with AWS DynamoDB and implemented a face-liveliness detection feature for Android, improving security by 40%	
- Collaborated with development teams using Git following Agile methodologies	
Project Research Associate, Sports Technology and Analytics Research Centre	Jun 2023 – Aug 2023
- Combined Monte Carlo simulations and ML models to predict football match outcomes	
- Analyzed data from 25,000+ matches and 10,000 players	
- Built a user interface for interactive data exploration	

PROJECTS

LLAMA3.1-70B Powered AI Content Curator for X in GenAI, LangChain, and CrewAI	Github
• Developed an advanced AI content curation system utilizing the LLaMA3-70B model via Groq API. Implemented a bot to discover, analyze, and share the latest in Generative AI, LangChain, and CrewAI on X. Does 5 tweets at a time and has 3 agents for it and used CrewAI to power up the whole project	
Neural Nexus: LLM Tournament Framework	Github
• Engineered a strategic battle system pitting different LLMs against each other in Othello/Reversi, achieving 95% uptime across 1,000+ test games with 8 different model configurations	
• Implemented robust API integration for multiple LLM providers (Groq, Google, Claude) with exponential backoff error handling, reducing failed API calls by 40% and improving system reliability	
• Developed an optimized game engine with move validation algorithms that process 8 directional vectors simultaneously, resulting in 35% improved frame rates and 40% reduced memory usage	
• Created an advanced prompting system with ASCII board visualization that improved LLM spatial reasoning by 30%, enabling sophisticated strategic gameplay with corner and edge position awareness	
Project Gemini-Inbox: Intelligent Gmail Assistant	Github
• Developed an AI-powered Gmail assistant using LangChain and Google's Gemini Pro model for automated email management and response generation	

- Implemented robust error handling and rate limiting mechanisms, integrated Gmail API for seamless email processing, and incorporated web search capabilities via Google Serper API
- Created an efficient email workflow system with customizable LangChain prompts for adaptable assistant behavior and response tone

Crypto Insights Dashboard [Github](#)

- Engineered a cryptocurrency analysis platform integrating 3 major APIs (CryptoCompare, Gemini Pro, Serper) with Flask backend, achieving 5-minute data refresh rates and real-time price tracking for 100+ cryptocurrencies
- Implemented AI-powered market analysis using Google's Gemini Pro for trend prediction and technical analysis, with 95% uptime and sub-second response times for market insights
- Developed a sentiment analysis system processing 1000+ daily news articles with categorization into market updates, development news, and regulatory news, achieving 85% classification accuracy

MLTrader: A Machine Learning Trading Bot: [Github](#)

- Created an automated trading bot using FinBERT for sentiment analysis and executed trades on Alpaca and back tested strategies with Yahoo Finance, improving trading accuracy by 40%

CERTIFICATES

- Tensorflow 2.0: Deep Learning and Artificial Intelligence [Certificate](#)
- LangChain-Develop LLM powered applications with LangChain [Certificate](#)
- Supervised Machine Learning: Regression and Classification [Certificate](#)
- HackerRank C Language(Intermediate) [Certificate](#)
- Hacktoberfest 2022: Level 4 (Open Source Contribution) [Badge](#)
- AWS Educate Getting Started with Serverless [Certificate](#)
- AWS Educate Getting Started with Networking [Certificate](#)
- AWS Educate Getting Started with Compute [Certificate](#)
- LFD103: A Beginner's Guide to Linux Kernel Development [Certificate](#)

EDUCATION

Bachelor Of Computer Science, PES University

Oct 2021- Apr 2025

- Coursework: Machine Intelligence, Operating System, Computer Networks, Compiler Design, Cloud Computing, Database Management Systems, Software Engineering, Data Structures and Algorithms, Software Engineering

SKILLS

Languages	C, C++, Java, SQL, HTML, CSS, JavaScript, Python, Node.js
Business Development	Marketing, Sponsorship, Strategy, Finance
Libraries	TensorFlow, Keras, PyTorch, NumPy, Pandas, Natural Language Processing, LangChain,
Tools	Docker, Kubernetes, Git, GitHub, Jenkins, AWS, Maestro, CI/CD, PostgreSQL
Networking Concepts	DNS, SSL, TCP
Soft Skills	Team Leadership, Effective Communication, Problem-Solving, Attention to Detail

EXTRACURRICULAR ACTIVITIES

- **Head of Sponsorship** [Maaya](#) handled over 8000+ students in this annual college fest, procured sponsorship of more than INR 4 lakhs+
- **Head of Sponsorship and Marketing** [Shunya](#), [IEEEras](#), [Weal](#) combined together hosted 7 hackathons and procured combined sponsorship of more than INR 10 lakhs+
- **SME Intern**, [Sahai](#) India:Increased Instagram followers by 10% through hashtag optimization and boosted website traffic by 20% via LinkedIn strategy
- **Lead Photographer** [Pixelloid](#) Shot for more than 20+ events and Officially for Royal Enfield launch event, check out all the [work](#)