

# SIDDHARTH PRAKASH

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## EXPERIENCE

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### 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

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### 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

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- 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

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**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

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

## EXTRACURRICULAR ACTIVITIES

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- **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](#)