



Yuvaraj Tankala

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PROFESSIONAL SUMMARY

Results-oriented Computer Science Engineer with a strong academic foundation from SRM University and the University of California, Berkeley. Experienced in software development, data structures, and algorithms, with a passion for building scalable and efficient systems. Skilled in collaborative problem-solving, innovative thinking, and leveraging technology to address real-world challenges. Adept at working in cross-functional teams, with a proven ability to adapt to dynamic and fast-paced environments. Seeking to contribute technical expertise and leadership skills to drive impactful projects in software engineering and technology innovation.

SKILLS

Languages	Python, C/C++, Java, MATLAB, LaTeX
Development	Blockchain, Solidity, Staking, GPT, Django, Node.js, REST, FastAPI, JavaScript, Web Scraping, React
Databases	VectorDB, Pinecone, MySQL, SQL Server, PostgreSQL, MongoDB
Cloud Services	Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform (GCP)
DevOps	Hadoop, Cloud Deployments, Big Data, Data Mining, Telegram, Twilio Chat Bot, Notion, Jira, GitHub
Research Tools	MATLAB, TensorFlow, PyTorch, Scikit-learn
Soft Skills	Leadership, Problem-Solving, Collaboration, Communication, Strategic Planning, Mentorship

EXPERIENCE

Share Ventures - Entrepreneur In Residence Remote, USA o Startup Screening Analyzed and screened over 1,000+ startups , leveraging AI and data analytics to inform investment decisions and identify high-potential ventures. o Strategic Insights Coordinated with high-profile venture capital partners and high-net-worth individuals (HNIs) , providing strategic insights that influenced key investment strategies and portfolio allocations. o AI Integration Led consulting initiatives integrating advanced AI solutions into the investment process, resulting in a significant increase in successful deal closures and overall portfolio performance . o AI Product Development Developed an AI Product Manager with a swarm of custom AI agents to autonomously oversee tasks, manage deadlines, and automate outreach with AI BDR agents , boosting efficiency and integration in tech management. o VC Firm Growth Leveraged AI to boost a VC firm's growth by 4.7% , enhancing market position with LLM strategies and complex document intelligence for deal flow and due-diligence .	Dec 2022 – Present
CoinDCX - Software Engineer Karnataka, India o Microservice Development Developed a protocol-agnostic script and microservice , facilitating the onboarding of 10M+ pools using ElasticSearch , REST , and Web3 , empowering users to seamlessly integrate with the DeFi ecosystem. o DeFi Pipeline Optimization Engineered a DeFi pipeline with load-balancing capabilities, managing traffic for 13M+ active users using cloud-based solutions . o Blockchain Research Researched blockchain validators , synchronized nodes, and collaborated with teams to refine a state-of-the-art DeFi platform .	Sep 2022 – Nov 2022
Walmart - Software Associate Tamil Nadu, India o Project Management Tools Managed global software maintenance using JIRA and Confluence to create user stories and product backlogs, enhancing team communication and project efficiency . o Team Collaboration Orchestrated application changes and collaborated with senior product managers and a 15+ member team to translate feature requirements into actionable tasks.	Jun 2022 – Jul 2022
Awair Sense YC'21 - Machine Learning Engineer Karnataka, India o Team Leadership Founding Engineer managing a 6-member cross-functional team (product, engineering, sales, support) and coordinating with 10+ business partners toward the successful launch of a data-driven dashboard . o Backend Development Developed backend APIs , streamlined data with MongoDB , and utilized AWS & GCP services for monitoring, security, and compliance. o System Management Managed Unix/Linux systems , integrated cloud solutions, and conducted regular code reviews .	Jan 2021 – Feb 2022

EDUCATION

B.Tech., Bachelor of Technology in Computer Science and Engineering SRM University Amaravati, India o Completed a comprehensive curriculum in Computer Science and Engineering, focusing on software development, algorithms, and data structures. o Engaged in multiple projects emphasizing innovation and real-world problem-solving.	2019 – 2023 GPA: 9.38/10
Startup Semester Program University of California, Berkeley, USA o Participated in an intensive startup-focused academic program, enhancing entrepreneurial and technical skills. o Collaborated with global peers on startup projects, fostering leadership and innovation.	2023 GPA: 3.8/4

JOURNAL PUBLICATIONS

- Improving Energy Efficiency and QoS of LPWANs for IoT Using Q-Learning Based Data Routing.** Pandey, O. J., Yuvaraj, T., Paul, J. K., Nguyen, H. H., Gundepudi, K., & Shukla, M. K. (2021). *IEEE Transactions on Cognitive Communications and Networking (IF: 8)*, 8(1), 365-379.
- Demonstrating Low-Cost Unmanned Aerial Vehicle for Anti-Poaching.** Paul, J. K., Yuvaraj, T., & Gundepudi, K. (2020, December). *In 2020 IEEE 17th India Council International Conference (INDICON) (pp. 1-7)*. IEEE.
- A Content-based Image Retrieval Scheme with Object Detection and Quantized Color Histogram.** Tankala, Y. (2021). *International Journal of Computational Science and Engineering*.
- OptRISQL: Towards Performance Improvement of Time-Varying IoT Networks Using Q-Learning.** Sharma, N., Thota, V. S. P., Yuvaraj, T., Tripathi, S., Pandey, O. J. (2024). *IEEE Transactions on Network and Service Management*.
- Mitigating Health Risks and Ensuring Safe Video Streaming Environments through Automated Video Content Moderation.** Kumar, M., Yuvaraj, T., Priya, G. S., Manikandan, V. M. (2023). *In 2023 International Conference on Quantum Technologies, Communications*.
- A Multipurpose Artificial Intelligence Based Attentiveness Monitoring System.** Tankala, Y., Paul, J. K., Manikandan, V. M. (2021). *International Journal of Advanced Research in Engineering and Technology*.

HONORS AND AWARDS

Scholarship: Secured 100% Scholarship (\$20,000) to pursue a semester at University of California, Berkeley, and 50% Scholarship (\$6,000) to pursue a Bachelor's at SRM University.

Research: Published 3+ IEEE Research Journals and Transactions with Impact Factors of 7, cited by over 20 global scholars.

Map the System & SCET Collider Cup 2022: Selected as Finalist to represent UC Berkeley at Oxford University, UK.

Hackathons: Secured a position in the top 5 out of 100,000+ teams in global hackathons organized by Atlassian, Rakuten, Route Mobile, Datastax Astra, SFSU, UCLA, CoinDCX, and other global companies. Won 20+ International Hackathons and featured in *Forbes*.

Startup: Startup Initiative sponsored by Amazon Founders Program with AI-powered software credits worth \$1,000 for utilizing Amazon Web Services.

Amazon ML Summer School 2022: Selected to explore industrial applications of Machine Learning with the Amazon ML team.

Yvonne and Andrew Koenig Biomedical Research Scholarship: 2020, 2021.

Dr. Beiyun Chen & Dr. Zhi Li Biomedical Research Bursary: 2019.

Joseph Katz Memorial Scholarship: 2019.

McGill Science Award: 2015.

PROJECTS

- QuantiNest: AI Powered Finance Analysis Assistant**
 - o **Trading Strategy Optimization:** Designed QuantiNest, a platform to optimize trading strategies and perform market sentiment analysis using large language models (LLMs).
 - o -2pt **Dynamic Strategy Adjustment:** Utilized real-time sentiment analysis and predictive modeling with LLMs using a **weekly shifting window** to enable dynamic adjustments to trading strategies in response to evolving market conditions.
 - o **Predictive Algorithms:** Created predictive algorithms to forecast market trends and optimize asset allocations, resulting in an annual performance 5% higher than the S&P 500 index.
- BuzzBot: Automated Social Media Marketing Tool**
 - o **Content Automation:** Created BuzzBot to automate content generation and scheduling, leveraging LLMs to enhance content creation and streamline social media workflows.
 - o -2pt **Trend Analysis:** Analyzed social media trends and user engagement using **NLP** and **LLM techniques**, enabling data-driven optimizations for content relevance and optimal posting times.
 - o **Cost Optimization:** Anticipated a 15% decrease in Cost Per Click (CPC) and a 10% reduction in Customer Acquisition Cost (CAC) by leveraging optimized ad targeting and content strategy, based on current market benchmarks.
- MindPalace: Enhanced CRM Solution for Business Leaders**
 - o **Data Automation:** Developed MindPalace, a CRM tool that utilizes LLMs for visual analytics to automate data interpretation and reduce human involvement.
 - o -2pt **Natural Language Interaction:** Applied LLMs and machine learning algorithms for natural language interaction, anticipating a reduction of 8 hours of manual work per week.
 - o **Strategic Insights:** Applied LLM-driven clustering and classification to transform data into actionable insights for strategic planning.

RESEARCH EXPERIENCE

- International Research, Co-Author**
University of Saskatchewan & IIT (BHU) Varanasi
o Work guided by Dr. Ha H. Nguyen, Professor & NSERC/Cisco Industrial Research Chair, University of Saskatchewan, and Dr. Omjee Pandey, IIT (BHU) Varanasi, IEEE Senior Member, for 2 IEEE Transactions.
o Achieved at least 200% higher residual energy in IoT devices and 163% higher data packet throughput compared to 4 pre-existing methods, in real-field LPWAN testbed simulations.
o Active contributor to IEEE Transactions on Network and Service Management (Impact Factor: 8+), with 2 papers published. Jan 2019 – Feb 2022 Remote |
- Undergraduate Researcher, Co-Author**
SRM University Amaravati, India
o Collaborated with experts on a groundbreaking CBIR approach that integrates YOLO object detection and quantized color histograms for improved image search capabilities.
o Achieved a 0.96 average precision on Corel 1K and Caltech datasets, outperforming standard methods. Jun 2022 – Feb 2023 India |