

# Archana Sondur

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## EDUCATION

<b>Master of Science in Computer Science</b> University of Southern California   GPA: 3.65 Courses: Analysis of Algorithms, Web Technologies, Applied Natural Language Processing, Machine Learning for Data Science, Security Systems, Multimedia Systems Design, Software Engineering, Database Systems	May 2026
<b>Bachelor of Technology in Computer Engineering</b> B.R.A.C.T.s Vishwakarma Institute of Information Technology   GPA: 3.8 Courses: Data Structures and Algorithms, Operating Systems, High Performance Computing, Computer Architecture, Database Systems Management	June 2023

## EXPERIENCE

<b>Software Engineering Intern</b> Genmark AI (React, TypeScript, Tailwind CSS, Flask, Python, Firebase) <ul style="list-style-type: none"><li>Built and shipped product features (authentication, profiles, media uploads) with React/TypeScript and Flask; implemented APIs, data models, validation, pagination, and consistent error handling</li><li>Improved developer velocity via AI-assisted prototyping and internal tools; added basic tests and GitHub Actions CI checks</li><li>Hackathon: prototyped a Unified Inbox to aggregate business signals and surface marketing insights</li></ul>	June 2025-August 2025 San Francisco, CA
<b>Full-Stack Development Intern</b> Till It Clicks (HTML, CSS, JavaScript, ReactJS, WordPress, Wix, Avada) <ul style="list-style-type: none"><li>Designed and deployed 5+ business websites using WordPress, Wix, and Avada, increasing user engagement by ~25%</li><li>Implemented responsive front ends using HTML, CSS, and JavaScript, reducing load time by 40% and improving accessibility</li></ul>	June 2022-August 2022 Pune, MH
<b>Research Intern</b> Vishwakarma Institute of Information Technology (Advisor: Dr. Sachin Sakhare) <ul style="list-style-type: none"><li>Conducted systems research under Dr. Sachin Sakhare, analyzing journaling, log-structuring, and shadow paging techniques</li><li>Developed a simulation tool to evaluate fault recovery mechanisms and co-authored a paper published in Springer Lecture Notes in Networks and Systems (July 2023)</li></ul>	August 2022-December 2022 Pune, MH

## PROJECTS

<b>NudgeEngine – Execution Engine for Modern Schedules</b> (Go, Rust, Postgres, Docker, GitHub Actions) <ul style="list-style-type: none"><li>Built a reliability-first scheduling/reminder backend (Go API + Rust planning engine) with health/DB probes, structured logging, timeouts, and graceful shutdown</li><li>Added Dockerized Postgres + CI + architecture docs to support reproducible dev and proof-layer testing (observability/load/chaos)</li></ul>	
<b>Forge - Full Stack Job Tracker</b> (React.js, Node.js, PostgreSQL, TypeScript) <ul style="list-style-type: none"><li>Designed and built a production-grade job tracking platform with Kanban workflows, filters, and scalable PostgreSQL schema, owning feature development from scoping to implementation</li><li>Built reusable React components and backend APIs to manage user workflows</li><li>Optimized usability, clean UX, and scalable data design</li></ul>	
<b>Skimsy - AI Document Summarizer</b> (React.js, Flask, Python, OpenAI API) <ul style="list-style-type: none"><li>Built an AI-powered document summarization tool using React and Flask, integrating LLM APIs to generate structured summaries and enable fast preview, iteration, and content understanding</li><li>Built clean, interactive UI for summarization preview and document management</li><li>Emphasized responsive design and clarity in output handling</li></ul>	

## TECHNOLOGIES

Programming Languages:	TypeScript, JavaScript, Python, C++, Java, Go, Rust, C
Frameworks & Libraries:	React, Node.js, Flask, Tailwind CSS, Scikit-learn
Databases & Cloud:	PostgreSQL, MongoDB, Firebase, AWS, GCP, REST APIs
Tools & DevOps:	Docker, GitHub Actions (CI), CI/CD, Unix/Linux, Version Control (Git), Postman
Data & ML:	NumPy, Pandas, TensorFlow, PyTorch, OpenCV
Other:	Distributed Systems, Agile/Scrum

## PUBLICATIONS

- "Comparative Analysis of Crash Consistency Techniques in File Systems"**, Proceedings of the NIELIT's International Conference on Communication, Electronics and Digital Technology, Lecture Notes in Networks and Systems 676, under exclusive license to Springer Nature Singapore Pte Ltd. 2023 (July 2023) – [\[Publication Link\]](#)
- "Smart City IoT Data Management with Proactive Middleware"**, International Journal on Recent and Innovation Trends in Computing and Communication (May 2023) – [\[Publication Link\]](#)