

Archana Sondur

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EDUCATION

Master of Science in Computer Science

May 2026

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

Bachelor of Technology in Computer Engineering

June 2023

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

EXPERIENCE

Software Engineering Intern

June 2025-August 2025

Genmark AI (React, TypeScript, Tailwind CSS, Flask, Python, Firebase)

San Francisco, CA

- Built and shipped product features (authentication, profiles, media uploads) with React/TypeScript and Flask; implemented APIs, data models, validation, pagination, and consistent error handling
- Improved developer velocity via AI-assisted prototyping and internal tools; added basic tests and GitHub Actions CI checks
- Hackathon: prototyped a Unified Inbox to aggregate business signals and surface marketing insights

Full-Stack Development Intern

June 2022-August 2022

Till It Clicks (HTML, CSS, JavaScript, ReactJS, WordPress, Wix, Avada)

Pune, MH

- Designed and deployed 5+ business websites using WordPress, Wix, and Avada, increasing user engagement by ~25%
- Implemented responsive front ends using HTML, CSS, and JavaScript, reducing load time by 40% and improving accessibility

Research Intern

August 2022-December 2022

Vishwakarma Institute of Information Technology (Advisor: Dr. Sachin Sakhare)

Pune, MH

- Conducted systems research under Dr. Sachin Sakhare, analyzing journaling, log-structuring, and shadow paging techniques
- 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)

PROJECTS

NudgeEngine – Execution Engine for Modern Schedules (Go, Rust, Postgres, Docker, GitHub Actions)

- Built a reliability-first scheduling/reminder backend (Go API + Rust planning engine) with health/DB probes, structured logging, timeouts, and graceful shutdown
- Added Dockerized Postgres + CI + architecture docs to support reproducible dev and proof-layer testing (observability/load/chaos)

Forge - Full Stack Job Tracker (React.js, Node.js, PostgreSQL, TypeScript)

- Designed and built a production-grade job tracking platform with Kanban workflows, filters, and scalable PostgreSQL schema, owning feature development from scoping to implementation
- Built reusable React components and backend APIs to manage user workflows
- Optimized usability, clean UX, and scalable data design

Skimsy - AI Document Summarizer (React.js, Flask, Python, OpenAI API)

- 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
- Built clean, interactive UI for summarization preview and document management
- Emphasized responsive design and clarity in output handling

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) – [\[Publication Link\]](#)