

Shravan Komarabattini

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Education

Purdue University [\[LINK\]](#)

B.S. in Computer Science, Mathematics & Research Certificate in Mathematics

Fort Wayne, IN

Aug 2019 – May 2023

Work Experience

Swiss Re [\[LINK\]](#)

Engineer+Product

Kansas City, MO

Jul 2023 – Present

- Designed and executed testing plans for transitioning legacy relational data from SQL databases to a NoSQL environment (MongoDB). Reverse architected custom ETL pipelines to convert document-oriented models into relational schemas, reducing post-migration discrepancies by 30% through automated integrity validation using Python's difflib.
- Streamlined the migration process by implementing validation frameworks that automated schema transformation and consistency checks. Cutting testing time by 25% and reducing production issues by 40%.
- Developed tailored routines that combined manual and automated testing for cross-database integrity checks. Diagnosed and fixed 200+ data issues by refining data access patterns and optimizing query performance, resulting in 2-5x faster data retrieval and processing across both systems.
- Managed a focused team of 3+ by instituting agile methodologies and integrating CI/CD pipelines. This initiative improved stakeholder engagement and enhanced team efficiency by 50%.

Selected Projects [*Tools: CursorAI, ChatGPT, Elevenlabs, Midjourney, RunwayML, Gemini 2.0*]

BiteVote [\[LINK\]](#) | *Next.js, TypeScript, MongoDB Atlas, Pusher, ShadcnUI, Tailwind CSS, React hooks, Vercel*

- Real-time Team Decision Platform:** A real-time collaborative voting application using Next.js, MongoDB Atlas, and Pusher, enabling teams to make democratic lunch decisions with instant vote synchronization.
- Frontend Architecture:** Built a responsive UI using ShadcnUI, Tailwind CSS, and React hooks, featuring real-time updates, QR code integration, and a mobile-inclusive design approach for seamless cross-device usage.
- Engaging Marketing:** Deployed on Vercel, BiteVote is backed by an engaging animated animal character storyline showcased in a marketing video. The project continues to attract real users daily. Video1 : [\[Link\]](#), Video2 : [\[Link\]](#)

QuixlyAI [\[LINK\]](#) | *Next.js, TypeScript, OpenAI's API, ShadcnUI, Tailwind CSS, Framer Motion, Vercel*

- AI-Powered Email Marketing:** A full-stack email marketing platform using Next.js, React, TypeScript, and Tailwind CSS; integrated OpenAI's API to reduce campaign creation time from 14+ hours to approximately 4 hours.
- Dynamic User Interface:** Developed a responsive interface with ShadcnUI and Framer Motion to deliver smooth, real-time animations and enhanced form validations, ensuring a seamless user experience across devices.
- User Adoption:** Deployed seamlessly on Vercel, Quixly AI is supported by a marketing video and adopted by real users, proving its real impact in the field. Video : [\[Link\]](#)

Publications

Conference Paper [\[LINK\]](#)

- K. J. Ambarani, S. Sharma, S. Komarabattini, M. T. Thai and T. N. Nguyen, "Enforcing Resource Allocation and VNF Embedding in RAN Slicing," 2021 IEEE Global Communications Conference (GLOBECOM), 2021.

Awards

- Purdue University Scholarship:** Departmental partial tuition scholarship for International students
- Sushil K Usman Endow Scholarship:** For merit performance across Purdue University Fort Wayne students.
- Purdue Fort Wayne Cares Act Grant:** Federal Communications Committee grant as a part of CARES Act.
- National Cyber League:** Silver bracket team players across all 50 U.S. states registered to participate.