

SHRAVAN KOMARABATTINI

SOFTWARE ENGINEER | PRODUCT ENGINEER

shravankb301@gmail.com | [+1 260 467 3696](tel:+12604673696) | shravan.cc | [GitHub](#) | [LinkedIn](#)

EXPERIENCE

Swiss Re | [Company site](#)

Kansas City, MO

Engineer + Product

Jul 2023 - Present

- Owned migration validation for a legacy SQL-to-MongoDB program, building Python ETL reconciliation workflows that cut post-migration discrepancies by 30%.
- Automated schema transformation and consistency checks, cutting testing time by 25% and production issues by 40%.
- Resolved 200+ cross-database integrity and access-pattern defects; optimized queries for 2-5x faster retrieval and processing.
- Led a 3+ person delivery team and introduced agile and CI/CD practices, improving team efficiency by 50% and increasing stakeholder visibility.

SELECTED PRODUCTS & OPEN SOURCE

UploadPrep | [Live site](#)

Creator

- Shipped a client-side workflow for resizing, compressing, merging, and validating images and PDFs against real upload requirements; imported files never leave the browser.

OpenThatEmail | [Live site](#)

Creator

- Built and launched a browser-local reader for five email formats (MSG, EML, EMLX, winmail.dat, and MBOX), including attachments and bulk outputs without server uploads.

ExportSafe | [Live site](#)

Creator

- Built a browser-local data portability workflow that turns overlapping CSV exports into an offline archive with source provenance, duplicate detection, and explicit gap reporting.

Firecrawl Guard | [GitHub repo](#) · [npm package](#)

Creator & Maintainer

- Published an open-source TypeScript gateway that issues virtual agent keys and enforces hard cumulative credit budgets for autonomous crawlers; released through npm and GitHub.

Earlier launches: QuixlyAI [Live site](#) · [Demo video](#) | BiteVote [Video 1](#) · [Video 2](#)

SKILLS

Languages: TypeScript, JavaScript, Python, SQL, C++

Web: React, Next.js, Node.js, Tailwind CSS, REST APIs, responsive UI

Data & Delivery: MongoDB, relational databases, ETL, data validation, CI/CD, Git, Vercel

Startup: Customer discovery, rapid prototyping, product design, technical writing, launch execution

EDUCATION

Purdue University Fort Wayne | [View degree](#)

Fort Wayne, IN

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

May 2023

RESEARCH & RECOGNITION

IEEE GLOBECOM 2021 | [View paper](#) · [IEEE profile](#) - Co-author, "Enforcing Resource Allocation and VNF Embedding in RAN Slicing."

Selected recognition: Purdue departmental scholarship; Sushil K. Usman Endowed Scholarship; National Cyber League Silver Bracket.

PERSONAL

Strength training, small internet experiments, and one operating principle: make the hard thing feel obvious.