

Ashwin Chembu

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PROFILE

Full-stack software engineer building reliable products with **React, TypeScript, Python, APIs**, cloud storage, data systems, and testable user workflows.

TECHNICAL SKILLS

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

Frontend: React, Next.js, Tailwind CSS, Three.js, responsive component systems

Backend: FastAPI, Flask, Node.js, Express, REST APIs, WebSockets, OpenAPI, MCP

Data/Cloud/QA: Snowflake, MongoDB, Firebase, AWS S3, Docker, Playwright, Vitest, pytest

EXPERIENCE

Business Technology Solutions Associate | ZS Associates

South San Francisco, CA | Jun 2024 - Present

Built applied AI, data engineering, and enterprise workflow solutions

Python | React | FastAPI | SQL | Snowflake | AWS | Docker

- **Built React and FastAPI services** with **AWS** data integrations, Redis, and document-ingestion workflows for enterprise knowledge products.
- **Developed Snowflake SQL pipelines** for extraction, identifier matching, API connectivity, and quality reporting across **327K+ records**.
- **Translated stakeholder requirements** into testable application logic, data-quality checks, decision logs, and production-ready delivery documentation.

Founder & Lead Developer | Tallyrus

Remote | Jun 2023 - Present

Built full-stack and RAG tooling for automated essay feedback

Python | React | Flask | MongoDB | S3 | LangChain | OpenAI

- **Developed an AI-assisted essay-feedback platform** using **Python**, LangChain, Pinecone, OpenAI, and educator-defined rubric workflows.
- **Built Flask, MongoDB, and S3 services** plus **React** grading interfaces for document management, scoring, and actionable feedback.
- **Led product planning, user testing, and iterative delivery**, raising five figures to support continued product development.

Data Analyst / Web Development Lead | Tech4Good @ UCSC

Santa Cruz, CA | Mar 2023 - Present

Built collaborative FigJam tooling, shared services, and research-data workflows

TypeScript | Figma APIs | Node.js | Express | MongoDB | Python | Pandas

- **Contributed 158 attributed GitHub commits** to a collaborator-owned FigJam widget suite; six team-published Figma Community resources show **12K+ aggregate uses**.
- **Built and iterated TypeScript collaboration workflows** across chat, text entry, polling, carousel, radar, Likert, and tooltip modules with synchronized state, anonymous responses, vote changes, and admin controls.
- **Connected Node.js, Express, and MongoDB services with Python/Pandas analysis**, processing **43K+ anonymized interaction records** and implementing Excel/XLSX data workflows.

PROJECTS

Lume - AI Meeting Intelligence Platform

Dec 2025 - Present

React | Node.js | MongoDB | AWS S3 | WebSockets | RAG

- **Built a full-stack meeting intelligence platform** that captures, stores, searches, and queries meetings and uploaded documents.
- **Architected a grounded Q&A workflow** with vector embeddings, intent routing, evidence extraction, citations, and generator/critic refinement.
- **Implemented real-time React experiences** with WebSockets, transcript-aware search, and reusable project knowledge across files.

Private Filedrop - AI-Integrated File Exchange

2026

Node.js | Express | AWS S3 | OpenAPI | MCP | Webhooks

- **Designed and deployed a secure file platform** with authenticated **APIs**, S3-compatible storage, version history, and direct-download links.
- **Built OpenAPI and MCP integrations** plus message channels and signed webhooks for reliable AI and desktop handoffs.
- **Implemented security and migration controls** including timing-safe credential checks, HMAC signatures, validation, and storage abstraction.

3D Commerce Experience

2026

React | TypeScript | Three.js | Vite | Tailwind CSS

- **Built an interactive varsity-jacket storefront** with product discovery, cart, checkout, account, search, and responsive content flows.
- **Developed a Three.js product builder** using GLB assets and Draco decoding with independent garment and placement controls.
- **Created reusable commerce components** for navigation, product cards, modals, and consent flows, then verified a production Vite build.

EDUCATION

University of California - Davis | **B.S. Computer Science** | **GPA: 3.7**

Davis, CA | Graduated Jun 2025

Relevant Foundation: Algorithms, Databases, Distributed Systems, Operating Systems, AI/ML, Data Structures

CERTIFICATIONS

AWS Certified Cloud Practitioner | Google Data Analytics Certificate

PUBLICATION

ICER - Evaluating Exploratory Reading Groups for Supporting Undergraduate Research Pipelines in Computing - **Jun 12, 2024**

LINKS

Website: ashchembu.com | LinkedIn: linkedin.com/in/ashwin-chembu-a5292b205 | GitHub: github.com/ashwinchembu