Tanmay Ghate

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Summary

Competent software engineer, able to work effectively in a fast-paced, agile environment, and passionate about developing software architecture for primarily web applications.

Experience

Junior Software Developer - NAU ITS

Northern Arizona University • Flagstaff, AZ
07/2024 - Present

- Built and maintained a full-stack Flask web app ("Self Enroll") with Python, SQL, and Bootstrap, introducing features for students to deactivate/reactivate non-credit courses in Canvas and designing with responsive and accessible UI practices.
- Improved maintainability of the Course Name Generator system by refactoring the codebase, adding documentation, structured logging, and better repository organization.
- Developed an automated pipeline to reconcile discrepancies between PeopleSoft and Canvas databases, generating CSV reports and enabling accurate enrollment synchronization.
- Enhanced course management and enrollment systems through automation, user-focused design, and backend data synchronization.

Projects

Ridesnet | Ridesnet.com

Tech Stack: MERN, Socket.io, Docker, REST APIs

- Built a full-stack ride-sharing web application that allows drivers to post and schedule rides and riders to search and join trips, with role-based user functionality.
- Developed real-time chat and notifications with Socket.IO and Firebase Cloud Messaging, including message persistence.
- Integrated Google Maps APIs (Places, Maps JS) for location autocomplete and route planning.
- Deployed application on AWS with Docker Compose and automated CI/CD pipelines via GitHub Actions.
- Implemented JWT authentication with token refresh and middleware to secure protected routes.

Self-Enroll WebApp

Tech Stack: Python, Flask, SQL, Bootstrap

- Developed a full-stack Flask web application enabling students to self-enroll in non-credit courses, working end-to-end across backend and frontend.
- Introduced the first-ever feature allowing students to deactivate or reactivate courses on their Canvas dashboard, improving user control and reducing clutter.
- Designed and implemented a course catalog for non-credit courses, allowing users to browse offerings and self-enroll directly through the system.

Education

Bachelor's Degree in Computer Science

Northern Arizona University • Flagstaff, AZ
12/2026

Skills

Python, C++, Javascript, MongoDB, Express.js, React, Node.js, REST APIs, SQL, Data Structures, Algorithms, Communication, Team-work, Problem-solving

Coursework

Software Engineering, Data Structures, Algorithms, Database Systems, Computer Networks, OOP and Web Programming.