# TANMAY GHATE

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GitHub | LinkedIn

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## SUMMARY

Computer Science student at Northern Arizona University with hands-on software engineering experience building production systems processing 10,000+ user accounts. Proven track record developing scalable applications with Python, React, and AWS, contributing to university platforms serving thousands of students. Seeking summer 2025 software engineering internships to apply full-stack development and data engineering skills.

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## EXPERIENCE

**Northern Arizona University –** Flagstaff, AZ                                                     July 2024–Present
*Software Developer*

- Spearheaded development of a Self-Enroll web app, transforming a static HTML page into a functional platform with student self-deactivation/reactivation features for non-credit courses
- Designed and implemented a course catalog with search, sort, and enrollment workflows, incorporating role-based access control to manage enrollment conditions for students, instructors, and public users
- Developed and implemented a Python-based data synchronization tool, reconciling 10,000+ user accounts between PeopleSoft and Canvas databases, ensuring 99% data consistency
- Optimized data processing workflows using pandas and SQLite, reducing processing time by 50% and improving discrepancy detection accuracy by 35%
- Contributed to the university's core learning platforms, improving data accuracy and automating workflows impacting 10,000+ student accounts
- Wrote automated tests for core Python modules using pytest, improving code reliability.

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## PROJECTS

**Ridesnet (ridesnet.com)**
- Developed a ride-sharing web app enabling users to post scheduled rides with date, time, and contact details
- Integrated Google Maps API for location autocomplete, route visualization, and ETA/duration calculations, improving ride accuracy
- Built a real-time chat system supporting concurrent conversations between drivers and riders
- Implemented Kafka-driven email notifications, automating alerts for new accounts, rides, and messages
- Deployed scalable architecture on AWS EC2 with Docker and set up CI/CD pipelines for automated GitHub deployments, tested for 50+ concurrent sessions with 99.9% uptime

**Instagram Saved Posts Downloader (GitHub)**
- Developed a Python-based Instagram backup tool utilizing reverse-engineered API endpoints for authenticated media retrieval, handling rate limiting and pagination to process large collections (1,000+ posts)
- Implemented dual user interfaces (CLI and Tkinter GUI) with collection filtering, configurable download limits, and real-time progress tracking using tqdm for enhanced user experience

**Personal-portfolio website (tanmayghate.site)**
- Built a personal portfolio website to showcase projects, skills, and experience with a responsive and modern UI
- Deployed on AWS EC2 with CI/CD pipelines for automated updates from GitHub

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## EDUCATION

**Bachelor of Science in Computer Science | Expected Grad Date: Dec 2026 | GPA: 3.44**
Northern Arizona University, Flagstaff – AZ

**Coursework**: Computer Networks, Database Systems, Data Structures & Algorithms, Software Engineering

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## TECHNICAL SKILLS

**Languages –** Python, JavaScript, C++, C

**Frameworks & Libraries –** Node.js, Express.js, React.js

**Databases –** MongoDB, SQLite, MySQL

**Cloud & CI/CD –** AWS EC2, Docker, GitHub Actions, Nginx, Linux

**Other Technical Skills –** Data Structures & Algorithms, RESTful APIs, Git/GitHub, WebSockets, Kafka