

Akshad Pai

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EDUCATION

University of Illinois at Urbana–Champaign

M.S. in Computer Science

May 2024 - Expected Aug 2026

GPA: 4.00/4.00

University of Illinois at Urbana–Champaign

B.S. in Mathematics & Computer Science

Aug 2020 – May 2024

GPA: 3.74/4.00

EXPERIENCE

ROKMETRO

Chicago, IL

Software Engineer | Flutter/Dart, Python, Go, MongoDB, Kotlin, Swift, Objective-C

May 2024 – Present

- Proposed and currently leading an MVVM+BLoC refactor of a production Flutter app, replacing a singleton-service dependency web with modular layers to improve testability, parallel development and AI-assisted changes)
- Optimized push-notification delivery by replacing nested list scans with hash set/map indexing, reducing worst-case runtime from **quadratic** to **linear** while preserving correctness and supporting migration to a third-party service
- Optimized database schemas and indexing strategies, which reduced latency by **~5%** for **300k+ monthly users**
- Developed a cross-platform paywall SDK into a Flutter plugin, enabling in-app purchases across iOS and Android

Software Engineer Intern | Python, Go, MongoDB, Flutter

May 2023 – Aug 2023

- Independently developed a code-generation tool, eliminating **~15%** of backend code
- Built UI components and developed REST APIs for a university app with **50k+ users**

PROJECTS

False Social akshad.com/falsesocial | *Agent Engineering, AWS CDK, OpenAI Agents SDK, Python, React* Feb 2025

- Shipped a Python + AWS serverless pipeline to ingest 3-10 new posts/day, run 3 LLM workflows per post (avg runtime 6 minutes), and persist versioned outputs for UI/API consumption
- Serves 200 DAU and 1-2k queries/day with 1 schema violation/week while iterating on workflow quality and UX
- Built a responsive frontend to browse and inspect precomputed analysis results, including phrase-level highlighting driven solely by numeric scores (truth/misleadingness + verifiability)

Buzzbuddy buzzbuddy.co | *React Native, Python, AWS Lambda + API Gateway, Aurora DSQL, Firebase* Nov 2025

- Co-founded BuzzBuddy (launching Mar 31, 2026), a social app for tracking alcohol intake with BAC estimates
- Implemented an authorizer to validate Firebase Authentication JWTs and enforce access control for endpoints

Simple Distributed File System | *Go, Apache Hadoop*

Dec 2023

- Architected a distributed file system, outperforming Hadoop by **~10%** on complex filters and **~15%** on joins
- Engineered leader-based replication and self-healing recovery, sustaining **99.9% availability**
- Designed a fault-tolerant MapReduce layer with hash partitioning and task rebalancing, on **50+ node clusters**

Womt: Who's On My Team | *Android 7.0+, IOS 11.0+, Swift, Java, Python, MySQL*

May 2022

- Independently Launched a mobile app for student organizations for keeping track of activities
- Created a dashboard helps administrators manage memberships, events, announcements, and in-app games
- Members can join teams, team events, communicate, and play games with other members

LEADERSHIP

President

Jan 2022 - Dec 2022

Beta Chi Theta Fraternity – Phi Chapter

- Oversaw chapter operations and managed executive board resulting in a **40%** surplus for the following semester
- Led weekly meetings for **30+ members** to drive initiatives in philanthropy and academics
- Hosted study sessions, resulting in the **most improved GPA** in the council for the semester

TECHNICAL SKILLS

Languages: Golang, Java, Python, Swift, C/C++, Dart, SQL, MongoDB, Rust, Ocaml, TypeScript/JavaScript

Frameworks, Tools, & Python Libraries: Flutter, React, Flask, Docker, Firebase, Node.js, FastApi

AWS: CDK, EventBridge, API Gateway, EC2, RDS, DynamoDB, Lambda, S3, Route 53, CloudWatch