

ANUPAM SAI SISTLA

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Education

University of Illinois Chicago

Bachelor of Science in Computer Science

Expected: May 2026

GPA: 3.88/4.00

Coursework: Data Structures, Algorithms, Systems Programming, Software Design, Object Oriented Design, Machine Learning, Parallel Programming, Artificial Intelligence, Natural Language Processing, Data Science, Database Systems

Tools and Frameworks

Languages: Python, Java, Typescript, Dart, Bash, C, C++, PHP, SQL, JavaScript

Libraries & Frameworks: React, Angular, Flask, Django, Spring Boot, Hibernate, JUnit, Mockito, Jest, Selenium, Pandas

Tools & Platforms: Git, Linux, Docker, Jenkins, Jira, Snyk, SonarQube, AWS, Azure, GCP

Experience

Software Engineer Intern

Jun 2025 – Present

Protegrity USA, Inc.

- Developed a Chrome extension in React and TypeScript that integrates with Protegrity's cloud data-protection solution to enable role-based encryption and decryption of sensitive data (PII, PHI) using OAuth2 and JWT for authorized users
- Deployed the solution across AWS, Azure, and GCP to test cross-cloud compatibility and designed a weighted heuristic algorithm to suggest user actions based on historical interactions and DOM context of selected webpage elements
- Built Jenkins CI/CD pipelines with Bash for standard and escrow builds, integrating Snyk and SonarQube, and using Webpack and Babel to bundle and transpile TS code in a Docker container to deliver versioned images to Artifactory
- Achieved 100% unit test coverage using Jest and implemented an automated PyTest and Selenium test suite to validate critical user workflows; logged and tracked defects in Jira; contributed within Agile Scrum and Kanban workflows

Teaching Assistant - Data Structures

Jan 2024 – May 2025

University of Illinois Chicago, College of Engineering

- Mentored and instructed 800+ students in Data Structures (C++) by leading labs and office hours to reinforce concepts
- Provided hands-on debugging support using GDB and AddressSanitizer to diagnose and resolve complex runtime issues
- Evaluated students through oral exams and contributed to starter code and autograded test suites for course projects

Software Engineer Intern

Jun 2024 – Jul 2024

IPage Unmanned Services

- Built and deployed a timelapse system across active construction sites to track construction progress for large commercial projects, integrating on-device image capture, cloud delivery, centralized processing, and customization via a web portal
- Implemented on-device image capture and batch upload pipelines on Raspberry Pi using gPhoto2, capturing ~1920 images over 24-hour intervals and uploading them to AWS S3 for centralized processing
- Built a multi-threaded Python Flask backend on AWS EC2 to process image batches from S3 in parallel, render branded timelapse videos using FFmpeg, stitch outputs into one final video, and expose results via REST API to a React portal
- Built CI/CD pipelines that packaged application code into Docker images and remotely deployed updates across 30+ Raspberry Pi devices via a centralized fleet management workflow, reducing operational overhead by 10×

Software Engineer Intern

Jun 2023 – Aug 2023

Zillion Holidays

- Developed Angular data entry interfaces for sales representatives within an all-in-one travel agency product suite
- Built Spring Boot REST services with Hibernate to support full CRUD workflows for venue data across product features
- Implemented unit and integration tests using Mockito and Selenium, and collaborated within Agile Scrum workflows across sprint planning, stand-ups, and retrospectives

Projects

Autonomous Debris Clearing Rover | Python, OpenCV, NumPy, YOLOv3, Dart, GraphQL

Dec 2025

- Built an autonomous rover capable of detecting and clearing debris within a predefined perimeter using real-time computer vision with OpenCV, NumPy, and YOLOv3
- Implemented a GraphQL telemetry and control API over Wi-Fi/LTE to stream rover state, object detections, and navigation status to a Dart mobile application with live video streaming

Medicine Scheduling Application | PHP, HTML5, CSS, JavaScript, AJAX, PostgreSQL, Cron, PHPMailer

Jun 2025

- Developed a PHP-based medicine scheduling application with a PostgreSQL backend to log and track daily medication intake, with adherence records downloadable in Excel and PDF formats
- Implemented automated reminders using Cron and PHPMailer, and leveraged AJAX to support real-time medication updates without page reloads