

# Samarth Shastry

925-719-5667 | [shastrysamarth@gmail.com](mailto:shastrysamarth@gmail.com) | [linkedin.com/in/samarth-shastry-1083b0304/](https://linkedin.com/in/samarth-shastry-1083b0304/) | [github.com/GitYACC](https://github.com/GitYACC)

## EDUCATION

### University of California, Santa Cruz

B.S. in Computer Engineering – 3.9 GPA

Santa Cruz, CA

Sep. 2022 – June 2026

**Relevant Coursework:** Advanced Data Structures & Algorithms, Distributed Systems, Cloud Computing Architecture, Assembly Language, Computer Systems and C Programming, Linear Algebra, Statistics, Multi-variable Calculus, Discrete Math, Computer Architecture, Assembly Language, AWS Solutions Architect

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, TypeScript, HTML/CSS, C/C++, Java, SQL (PostgreSQL/MySQL), Rust, GraphQL, Verilog  
**UI/Frameworks:** NextJS, React, Node.js, Flask, TailwindCSS, HeadlessUI, Framer Motion, NumPy, OpenCV2  
**Cloud & DevOps:** AWS (EC2,S3,RDS,ECS,Lambda,VPC), Docker, Kubernetes, CI/CD, Git, Terraform, TCP/IP, IPv6, HTTP  
**Developer Tools:** Postman, Doppler, Shadcn, GPT4 API, Firebase, VS Code, Jenkins, Prometheus, JIRA, Rest API, FHIR

## EXPERIENCE

### Intual

October 2024 – Present

Full Stack Developer & Co-founder

Remote

- Led software development of security management workflow for Amazon Security, managing access for 50,000+ employees
- Designed and implemented automated timesheet processing system handling 10,000+ daily entries
- Built real-time badge organization system with granular building access privileges using RBAC and OAuth2
- Developed interactive workflow canvas using NextJS and Go, implementing A\* for dynamic connector routing
- Engineered containerized microservices architecture using Docker and Kubernetes, achieving 99.99% uptime

### Pulse AI

June 2024 – September 2024

Full Stack Intern

Remote

- Developed enterprise-grade ERP system with Kanban board handling 5000+ concurrent users using NextJS
- Engineered containerized microservices architecture using Docker, deployed on AWS ECS with auto-scaling
- Implemented document analysis pipeline processing 1000+ files daily with 95% accuracy using GPT-4 API
- Reduced infrastructure costs by 40% through optimization of AWS resources and implementation of caching

### Nivetti Systems

June 2023 – September 2023

Software Engineering Intern

Remote

- Built scalable topology management system handling 1000+ network configurations using NextJS and PostgreSQL
- Implemented custom A\* pathfinding algorithm for network routing, reducing path computation time by 60%
- Designed robust authentication system using NextAuth, managing 20+ enterprise accounts with role-based access
- Orchestrated CI/CD pipeline using GitHub Actions, achieving 99.9% uptime for production environment

## PROJECTS

### ADA.ai | NextJS, GPT-4 API, AWS RDS, Docker

June 2023

- Led development of API documentation automation tool at UC Berkeley CalHacks, winning Best Developer Tool award
- Engineered custom GPT-4 prompt system achieving 95% accuracy in API documentation generation
- Implemented containerized architecture using Docker and AWS ECS for scalable deployment

### Dublin Basketball League Platform | NextJS, AWS (S3, ECS, CloudFront), Kubernetes

June 2023 – Present

- Developed full-stack sports management platform serving 100+ players with real-time statistics and analytics
- Implemented microservices architecture using Kubernetes for player stats, game management, and analytics
- Designed scalable data pipeline using AWS S3 and CloudFront, achieving 99.9% availability
- Reduced data retrieval latency by 70% through implementation of Redis caching and CDN optimization

### Banking SAAS Platform | NextJS, Plaid API, Docker, AWS

June 2022 – Present

- Built scalable banking platform managing 25+ bank accounts and 1500+ daily transactions
- Implemented secure microservices architecture using Docker and AWS ECS for transaction processing
- Achieved 99.99% uptime through Kubernetes orchestration and automated failover mechanisms