Arin Gadre

aringadre@gmail.com | LinkedIn | GitHub | Portfolio

EDUCATION

University of California, Santa Cruz

Santa Cruz, CA

B.A. in Network and Digital Technology

Expected Spring 2026

• Relevant Coursework: Applied ML: Deep Learning, Software Engineering, Computer System Design, Computer Networks, Compiler Design, Advanced Programming in C++, Data Structures & Algorithms, Logic Design, Natural Language Processing

TECHNICAL SKILLS

Languages: Python, Java, C/C++, JavaScript, TypeScript, Dart, PHP, Verilog, SQL

Frameworks & Tools: React, Laravel, Flutter, PyTorch, TensorFlow, Keras, Tailwind, Node.js, Express, MongoDB, MySQL, Grafana, Prometheus, Flask

Development: SCRUM, Agile, API Integration, Unit Testing, Debugging Tools, Git, Android Studio, Android SDK,

NLTK

EXPERIENCE

Engineer – Product Demos & Website Revamp

2025 - Present

Othentk

- Demonstrated company product at startup events and trade shows, gathering customer and investor feedback
- Redesigned company website with modern, responsive design principles, improving user experience and brand presentation

Co-op Intern – GenAI CPU Analytics Tool

 $Jan\ 2025 - June\ 2025$

Nutanix Remote

- Architected containerized benchmarking platform for CPU inference of LLMs using Docker Compose, orchestrating client and VM services
- Enhanced vLLM inference engine by integrating Node Exporter and Intel PCM Exporter to collect CPU
 performance counters
- Developed **FastAPI microservices** on client and VM sides to coordinate benchmark execution and results management
- Built interactive **Streamlit UI** for configuring, running, and visualizing benchmarks with model selection and parameter tuning
- Configured **Prometheus metrics pipeline** and designed **Grafana dashboards** to visualize model latency, throughput, and system resource utilization
- ullet Designed **SQLite schema** and initialization scripts for persistent storage and analysis of benchmark results
- Project Showcase: UCSC CSSPP GenAI CPU Analytics

Software Engineer Intern

Sept 2023 – Present

The Difference LLC

Remote

- Architected **Flutter** mobile app components with optimized state management using **Provider**, streamlining 15+ interactive features
- Integrated various third-party APIs to enhance application functionality and boost user engagement
- Developed new back-end functions in Laravel and performed DB migrations, expanding service capabilities
- Implemented debouncing techniques to optimize search functionality, reducing API response time by 60%
- Created comprehensive API documentation using Swagger, improving development workflow and reducing onboarding time by 50%
- Implemented automated CI/CD pipeline using GitHub Actions, reducing deployment time from 45 to 12 minutes

Projects

BingeFlix | React, Node.js, MongoDB, ChatGPT API | Live Demo

Spring 2024

- Developed unified streaming search platform aggregating movies, sports, and anime from various services
- Led team as Scrum Master through SCRUM processes, managing sprints and maintaining documentation

Real-Time Drawing Board | Django, Django Channels, Redis, React | Live Demo

Spring 2024

- Engineered real-time collaborative drawing platform using **Django Channels** and **WebSocket** for multi-users
- Implemented Redis channel layer and ASGI interface with Daphne server for efficient WebSocket communication

Dino Run Game | System Verilog, FPGA | Demo Video

Fall 2024

- Designed and implemented dinosaur runner game using SystemVerilog with finite state machines
- Programmed VGA rendering for pixel-perfect graphics on FPGA with real-time obstacle spawning