

Joseph Malatesta

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Education

Oakland University

Bachelor of Science, Computer Science - 3.6 GPA

Rochester Hills, MI

Dec 2024

Experience

Sentry (Sentry.io)

Developer Relations Intern

San Francisco, CA

May 2024 - Aug 2024

- Simplified the SDK's user feedback widget using React, improving the UX of a feature adopted by 1,300 organizations
- Developed demo apps with SvelteKit and NextJS, attracting 500+ users to help support technical content creation
- Published articles detailing the proper analysis of observability data for debugging, achieving a 13% lower bounce rate
- Created and hosted an interactive format for online workshops, setting a new standard company wide

Mercedes-Benz Financial Services

Software Engineering Intern

Farmington Hills, MI

May 2023 - Aug 2023

- Built an internal AI assistant using Angular and Java Spring Boot, streamlining communication among 2000 employees
- Refactored daily batch jobs using REST APIs in Spring Boot, improving speeds 800%

Alps Alpine

Software Engineering Intern

Auburn Hills, MI

Oct 2022 - Apr 2023

- Developed a testing framework for IoT applications, leveraging Swift and Python to collect, process, and visualize data
- Collaborated with Embedded Engineers to draw up system requirements and double development efficiency
- Designed and developed a REST API with ExpressJS and DynamoDB, saving 15+ hours per quarter in admin tasks

Leadership

GrizzHacks | President

Aug 2023 - Current

- Directed the reboot of Oakland University's yearly Hackathon, overseeing all operations across a 12 person team
- Led sponsorship and outreach efforts to bring in 150 participants across 16 universities and \$25,000 in sponsorship
- Automated signup flows with Google Sheets' App Scripts and developed grizzhacks.org using Figma and SvelteKit

Projects

[Groople](#) | Daily word game with 30 daily active users

- Validated inputs and engineered prompts to accurately evaluate 1000's of submissions via zero-shot LLMs
- Deployed features to help effectively partition the use of different models, cutting costs by 80%
- Optimized testing, logging, and analysis for consistent performance across all devices and users
- Implemented a CI/CD pipeline via Github Actions to ensure consistent code and successful deployments

[Security Camera](#) | Full Stack Security Camera

- Achieved over 90% accuracy in a human detection system using OpenCV, capturing videos locally on a RaspberryPi
- Uploaded videos to Google Cloud Storage with Python, dynamically rendering them using React and TypeScript
- Strengthened architecture for consistent uptime and load management, managing Nginx instances with Kubernetes

[ScanBite](#) | First place at Hack Dearborn, 225k TikTok views

- Led development of a full stack SvelteKit app that gives an accurate nutritional breakdown based on an image
- Integrated pre-trained CV libraries with customized prompts for LLMs to streamline the UX down to a single click
- Instrumented a Progressive Web App (PWA) and later created an in depth guide for [developing PWA's in SvelteKit](#)

Technical Skills

Languages: JavaScript, Python, HTML/CSS, Java, TypeScript, Swift, SQL, NoSQL, PHP, Ruby

Frameworks/Libraries: SvelteKit, React, NextJS, Astro, React Native, Angular, Spring Boot, ExpressJS, Selenium, Playwright, Tailwind, Bootstrap, ChartJS, OpenCV, Gradio, Transformers

Developer Tools: Git, Linux, Postman, AWS, GCP, Figma, Supabase, Jira, Vercel, Docker, Kubernetes, Nginx, Twilio