

SARAH EATHERLY

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FULL STACK DEVELOPER & AI ENGINEER

Passionate Full Stack Developer with specialized experience in AI application development and MCP (Model Context Protocol) agent architecture. Proven track record of building scalable, intelligent web applications using modern frameworks and AI technologies. Skilled in Agile project leadership and cross-functional collaboration to deliver innovative AI-powered solutions.

SKILLS

Front-End: HTML5, CSS3, JavaScript, TypeScript, React, Redux, Next.js, Tailwind CSS, Material-UI

Back-End: Node.js, Python, Express.js, MongoDB, PostgreSQL, RESTful APIs, Ruby on Rails

AI & Machine Learning: MCP Agents, XGBoost, Risk Prediction Models, AI Application Development, MLOps, OpenAI API Integration, Model Fine-tuning

Tools & Methodologies: Git, GitHub, Jest, Postman, Figma, Docker, AWS (EC2), Supabase, CI/CD, Agile (Scrum), Nginx

PROFESSIONAL EXPERIENCE

Banyan Labs

Agile Project Lead & Software Engineer (AI Projects)

Remote

May 2025 – Current

- Lead cross-functional teams in developing cutting-edge AI applications using Next.js, Supabase, and modern AI frameworks
- Architect and implement MCP (Model Context Protocol) agents for intelligent automation and workflow optimization
- Drive Agile methodologies and sprint planning for AI project delivery, ensuring efficient development cycles and stakeholder alignment
- Collaborate with AI researchers and engineers to translate complex AI concepts into user-friendly applications
- Manage project timelines, resource allocation, and technical decision-making for multiple concurrent AI initiatives

UpUnikSelf

Front End Developer Intern

Remote

September 2024 – March 2025

- Improved user engagement by 30% through responsive design optimizations for mobile and desktop platforms using React and Tailwind CSS.
- Collaborated with a team of 15 developers to build scalable React components, achieving a 95% approval rate from senior developers and stakeholders.
- Implemented React Hooks and standardized styling to reduce inconsistencies, enhancing code maintainability and overall user experience.
- Resolved cross-platform compatibility issues, ensuring consistent performance and accessibility across all devices and browsers by conducting thorough testing and optimizations.

PROJECTS

Bloom Housing Risk Prediction System (Exygy Partnership)

AI/ML Risk Assessment | Python, XGBoost, Machine Learning, Platform Integration

- Developed and trained an XGBoost machine learning model to predict housing instability risk based on housing application data for Exygy's Bloom Housing platform
- Implemented predictive analytics solution to identify individuals at high risk of becoming unhoused, enabling proactive intervention and resource allocation
- Integrated trained model with existing Bloom Housing platform infrastructure, ensuring seamless deployment and real-time risk assessment capabilities
- Collaborated with housing services stakeholders to translate complex ML predictions into actionable insights for case management and support services

MCP Agent Development Platform

AI Architecture | Next.js, Supabase, TypeScript, MCP Protocol

- Designed and developed intelligent MCP agents for automated workflow management and decision-making processes
- Integrated advanced AI models with real-time database operations using Supabase for scalable agent deployment
- Implemented secure authentication and role-based access control for enterprise AI applications

BlueZack

YouTube-Inspired Video Platform | MERN Stack (MongoDB, Express.js, React, Node.js), YouTube API, Redux, JWT

- Developed a full stack video streaming application with custom backend APIs for user authentication, playlist management, and commenting features.
- Integrated YouTube API for seamless video data retrieval and playback functionalities.
- Utilized Redux for state management, optimizing data flow and enhancing application performance by 20%.

Fyre Tunes

Music Discovery Platform | MERN Stack, Spotify API, AWS EC2, JWT, OAuth 2.0, Nginx

- Created a full stack music discovery app integrating the Spotify API with OAuth 2.0 for secure song data access and embedded music player functionality.
- Deployed the application on AWS EC2 with Ubuntu, Nginx, and SSL, ensuring secure and scalable user access.

EDUCATION

Justice Through Code, Columbia University

Remote

Software Engineering

September 2024 – June 2025

- Advanced coursework in full stack development, data science fundamentals, and cutting-edge AI technologies
- Specialized training in Artificial Intelligence (AI), Machine Learning Operations (MLOps), and serverless computing
- Hands-on experience with AI model integration, prompt engineering, and intelligent application development
- Applied machine learning techniques to real-world challenges including housing risk prediction and social impact AI solutions

Persevere

Remote

Full Stack Software Development

July 2023 – May 2024

- Completed comprehensive training in full stack development with hands-on projects like Fyre Tunes and BlueZack.
- Gained expertise in API integration, responsive web design, and agile development practices.

LEADERSHIP & COLLABORATION

AI Project Leadership: Currently leading multiple AI development teams at Banyan Labs, driving innovation in MCP agent architecture and intelligent application development

Technical Mentorship: Actively mentor aspiring developers at Persevere, providing code reviews and project guidance with focus on AI integration best practices

Industry Collaboration: Working with Eric King from Epic Games on an Unreal Engine showcase project utilizing Ruby on Rails and AI-enhanced gaming experiences

Professional Development: Continuous learner in emerging AI technologies, maintaining expertise in latest developments in machine learning, LLMs, and intelligent automation