

Palo Alto, CA

Stephen Rivas

Senior Software Engineer

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TECHNICAL SKILLS

AI / Agentic Workflows, Prompt Engineering, Python, JavaScript/TypeScript, Ruby, React/Next/HTML/CSS, Node.js/Express, SQL/NoSQL, Hive/Spark, GCP/AWS, REST/GraphQL APIs, Git, Agile/Scrum, Terraform, Pytest/Behave/Jest/Cypress/Puppeteer

EXPERIENCE

Walmart Global Tech - Adtech | Senior Software Engineer

2023 - Present

- Champion the use of AI tools such as Github Copilot in direct partnership with Microsoft, propagating agentic coding best practices throughout the organization to drive improved code quality and hastened development cycles
- Develop GenAI and LLM services that parse and simplify logs, automate debugging, track cluster and cloud compute costs, and provide actionable insights for incidents, faults, and performance degradation, saving 30%-50% on cloud costs while enabling engineers to focus on delivering revenue-generating features
- Architect and lead platform initiatives spanning AI, data pipelines, and cloud infrastructure, driving system scalability and reliability across enterprise-grade distributed systems serving global advertiser demand
- Partner with senior leadership and cross-functional stakeholders to define technical strategy, establish engineering best practices in system design and DevOps, and influence platform direction across mission-critical production systems
- Led production of both core and corrective prediction models for target ROAS system, collaborating with data science teams to enhance accuracy and success of automated campaign yields, resulting in 2-3x higher budget and ad spend
- Oversaw and managed Walmart Global Tech internship program, providing onboarding, training plans, project development strategies, and education to the future tech talent of Walmart
- Created cloud cost and performance monitoring dashboards using Google Looker, powered by custom-built GCP-to-Apache Airflow adapters and BigQuery views, leading to over \$1 million in annual cost reduction
- Managed and executed development of novel Python/PySpark internal framework for Adtech data team, enhancing performance, maintainability, and scalability of ETL pipelines while improving test coverage by over 50%
- Led launch of Walmart in-store attribution, enabling tracking and transparency of online customer impressions until the final in-store purchase, resulting in an increase in visible ROAS of 15% to 25% for first-party sellers
- Drove high-profile migrations of SQL databases, improving data availability and consistency for sponsored ads clients and drastically increasing efficiency of access by upwards of 4000%, significantly reducing cloud compute and spend
- Provided key data metrics for various click attribution windows to grant advertisers visibility of their ad campaigns via on-demand reports containing vital KPIs, including user impressions, CTR, ROAS, and conversion rates
- Tracked high value conversions of Walmart.com and app attribution pipeline orchestrated via Apache Airflow DAGs and monitored with Prometheus views, maintaining 99.9999% reliability and integrity of data presented to advertisers
- Developed and maintained Ruby, Python, and Java-based ETL pipelines to manage Kubernetes clusters and hosted them in GCP servers, accommodating and streamlining global-scale big data loads across Hive and Azure databases

Mentorcam (Y-Combinator Startup) | Lead Full Stack Engineer | 3 months

2023

- Lead Mentorcam's software engineering team, building and deploying features using GCP and Docker to create a seamless and scalable CI/CD strategy, reducing development cycles by 30%
- Worked cross-functionally with marketing, executive leadership, and sales team to develop and implement solutions that promote lead generation and high value action
- Directed the engineering team in the production of critical components and features using Next.js and Firebase, creating a responsive user experience through use of SSR and SWR strategy, enhancing overall SEO markers by 40%
- Enhanced visibility of user behavior by integrating Google Tag and Hotjar, following user-triggered events and tracking customer journeys through the use of Google Analytics and Customer.io to drive 75% higher conversion rates

DockerWatch | Software Engineer | 1 year**2022 - 2023**

- Enhanced application responsiveness by 30% by using React hooks for state management across multiple components
- Integrated InfluxDB to track CPU, memory, network load, and storage usage, mapping over 1,000 timestamps daily
- Created data visualization by leveraging the ChartJS library to clearly display container metrics in real-time
- Optimized query routing and improved response times by 20% via a Node.js Express back-end using the MVC pattern
- Achieved 99.9% test coverage by employing the Cypress end-to-end testing suite for front-end and back-end code
- Product developed under tech accelerator OS Labs (<https://opensourcelabs.io/>)

Hivemind Interactive | Founder / Software Engineer | 5 years**2014 - 2019**

- Leveraged ReactJS and Bootstrap to design the user interface for a novel interactive live streaming aggregation platform, resulting in an enhanced user experience leading to a 40% increase in user retention and engagement
- Employed Agile methodologies and JIRA for project management to oversee user story implementation, accelerating the product development cycle by 50% from ideation to deployment
- Enhanced user experience by managing and resolving over 500 user feedback and bug reports through JIRA's bug tracking tools, resulting in a 30% reduction in system bugs throughout the product life-cycle
- Utilized jQuery, JavaScript, HTML5, and CSS3 to boost website responsiveness by 35% and achieved a 99.9% server uptime with the help of Apache server, thereby meeting user expectations and increasing overall site traffic by 20%

Walmart Pharmacy | Pharmacy Manager | 10 years**2013 - 2023**

- Managed and led pharmacy teams of 10-15 professionals, ensured alignment with company policies, and drove strategic initiatives that resulted in a 20-25% improvement in KPIs year-over-year
- Increased operational efficiency by 30% by employing Agile/SCRUM framework to manage workflows and execute business strategies across pharmacy teams, streamlining coordination and enhancing productivity

PRO BONO (VOLUNTEERING)**CareerCompass (Black Sisters in STEM) | Lead Engineer | 6 months****2023 - 2024**

- Led development of AI-powered career coaching software by managing a team of engineers and collaborating with UI/UX design teams, accelerating production time by 500%
- Created system design diagrams and user story mockups using Figma and Miro to direct delegated work to engineers and designers
- Organized sprints and epics using Monday's agile full-development platform, ensuring delivery of features through 100% adherence to timelines defined during sprint planning
- Leveraged Langchain agents to create embeddings of curated data and store in a Pinecone vector database, building a long-term memory store to seamlessly integrate into the CareerCompass LLM

PRESENTATIONS & PUBLICATIONS

"Relational Database Modeling with SQL" - Tech Talk sponsored by Jeeny and Bractlet - New York, NY

2023

"The Magic of Axios-Retry: Enhancing API Request Resiliency" - Medium Article

2023

"How to Navigate the Ideation Stage of Software Development" - Better Programming Publication

2023

"How to monitor your Docker containers better with DockerWatch" - Medium Article

2023**EDUCATION**

Codesmith Advanced Software Engineering Immersive | Full Stack Engineering Residency

2022 - 2023

Wingate University School of Pharmacy | Doctor of Pharmacy Degree

2009 - 2013

Ferris State University | Advanced Chemistry, Mathematics, and Computer Science Major

2006 - 2009