

Jay Tambe

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LinkedIn: www.linkedin.com/in/jaytambe **GitHub:** www.github.com/jtambe **Web:** www.jtambe.github.io

Skills: Python, Flask, FastAPI, Next.js, Vue.js, C#, .Net core, PostgreSQL, TiDB, SQL, Docker, Kubernetes, Azure, AWS, Kafka, AI/ML, Databricks, Airflow, Apache Pyspark, MLflow

Work Authorization: Green Card.

Work Experience Summary: 15 years of industry experience in software development

Education: Masters in Computer Science from California State University, Chico (3.92 GPA)

Professional Experience:

Aledade – Senior Software Engineer | (Remote) | Oct 2024 – Present

- Owned patient AI summary NLP feature to show patient summary using MLflow LLM model serving endpoints in Databricks that ingests data supplied by Python Flask application during runtime. Used Datadog, sumologic for metrics and logging. Managed connection pooling for high scale with asyncio.
- Led the initiative to control Blood pressure hypertension by employing OCR data extraction from screenshots with vision enabled LLMs and DSPy modules. Built Vue.js, flask, fastapi, Apexchart and Chart.js
- Used Apache Airflow and Astronomer DAG for moving data from OLAP Snowflake to OLTP Postgresql
- Removed unused AWS resources during the process to save AWS billing costs
- Designed rules engine as a platform for other teams to host their features on EHR overlay.
- Conducted hiring interviews and held training sessions for high performance using parallelism, ML algorithms such as k-means clustering, logistic regression
- Built RCM venture demo for \$100 million market value in hackathon using 837 and 835 edi files.
- Built technical architecture for clinical copilot with AWS bedrock agentcore, langfuse, langgraph, involving collaboration with multiple teams to define a roadmap for subsequent financial quarters.
- I currently use claude code with MCP tools for figma, jira, google workspace, datadog, github for productivity

Conga – Senior Software Engineer | (Remote) | Oct 2023 – Oct 2024

- Led the design and architecture of a cloud-agnostic Secret Management API and SDK (NuGet package), including performance analysis (P50/P90/P99 latency) of various caching and fetching strategies (AWS Secrets Manager Cache, Redis Cache, batch fetching).
- Led critical performance engineering initiatives, developing high-volume .NET Core applications for distributed TiDB DDL generation using parallelism, evaluating index performance for optimized data schemas for up to billions of records, and refactoring mediatR code to reduce memory footprint by 1% using DotnetBenchmark for analysis.
- Architected scalable solutions, integrating HPA+KEDA for event-driven auto-scaling in Kubernetes and managing user authentication via OAuth and DuendeServer for Salesforce, Dropbox, and Google Drive.
- Increased developer productivity through Python automation, streamlining user onboarding processes which saved 30% of the time.

Loyal– Senior Software Engineer | (Remote) | Dec 2021 – Aug 2023

- Shipped Referral management product 0->1 as high-performance .NET Core Web APIs, with Dapper ORM, Redis caching, and advanced C# Reflection for deep object comparison and audit logging using middleware.
- Implemented microservices, with Docker and deployed to Azure Kubernetes Service (AKS) via Azure Container Registry and Azure CI/CD pipelines.
- Implemented SQL Column Encryption using CEK and CMK with Azure Key Vault, to protect PHI
- Built secure file processing pipelines using Azure Blob Storage and SAS tokens
- Improved event-driven Kafka pipeline efficiency by 5%
- Build Azure Application Insights alerts for production Observability.
- Built Patient Record Transfer for hackathon using Next.js, Material UI and backend api

ACI Infotech – Software Developer II | (Remote) | Sep 2021 – Dec 2021

- Implemented .Net web app EF Core ORM with a Code-First approach, applying Repository and Unit of Work patterns for API and business logic testing,

- Engineered dynamic CTEs and data pivots in SQL, applied parallel data processing for quick reports using AWS Lambda and AWS CloudWatch for IoT device control and monitoring

Clockshark – Software Developer II | Chico, CA (Remote) | Oct 2018 – Sep 2021

- Solved problems in field services domain with web application, integrating critical third-party APIs (SendGrid, QuickBooks, Stripe, Intercom) for features development.
- Engineered for performance with Dictionaries, Lookups, and Redis, TVP for SQL bulk inserts and ensuring quality through Fluent Validation and MS Unit testing.

Matson & Isom– Associate Developer | Chico, CA | Sep 2016 – Oct 2018

- Built various web applications and a bulk SMS service (Twilio), a student event location tracker, and an order distribution system for Sierra Nevada Brewery.
- Engineered secure online payment solutions, building a donation form integrated with a payment gateway.
- Designed and implemented high-volume backend processes, creating an executable for parallel email dispatch via SMTP

Accenture – Software Engineering Senior Analyst | Dec 2013– Jul 2015

- Managed a team across countries to lead data migration of millions of certificates for Accenture employees using high performance SQL techniques such as hash tables, temp tables, managing indexes for insertions.

Worldline – Application Engineer | Jul 2013 – Dec 2013

- Built multithreaded windows service using C# to automate the application process for credit cards using Oracle 11g database. Built reporting service using crystal reports.

Adecco – Software Engineer | Nov 2012 – Jul 2013

- Acted as forward deployed engineer to commission a new warehouse management system for Pharma clients

Aurionpro – Software Engineer | May 2010 – Nov 2012

- Automated on Nostro and Vostro account reconciliation which used international SWIFT files for managing customer data. Worked on a check referral system in a PCI complaint system

Personal Project:

GreduQuest– www.GreduQuest.com

- Built a product in Next.js app on AWS using EC2, Load Balancer, Cert Manager, Route 53, CICD
- Reduced cost to students for GRE, GMAT, IELTS preparation by 5% by providing a free tool
- Automated tasks using Python, Gemini, AWS Lambda, S3, Code Deploy, Cloudwatch, SQS, Secret Manager
- Applied AWS cost optimization strategies reducing spend by 16% and deployed infra using Terraform