Thomas A. Manley

Senior Software Engineer

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Professional Summary

Experienced Principal Engineer with a decade of expertise in full-stack development, system architecture, and engineering leadership. Consistently delivers high-impact solutions driving substantial revenue growth and operational efficiency. Excels in communicating complex technical concepts to non-technical stakeholders. Proactive problem-solver with a passion for innovation.

Professional Experience

Principal Engineer

GenerationTux | November 2016 - March 2024

Key Accomplishments

Engineering Leadership

- Led development of a warehouse management system, scaling daily order processing from 300 to 4,000, saving $400K annually

- Spearheaded tech initiatives contributing to company revenue growth from $2M to $45M annually
- Implemented an RFID service using LLRP, integrating with websockets for inventory scanning saving the company thousands of dollars by removing the dependency on third-party software

System Architecture & Optimization

- Designed and implemented a data warehouse system using Luigi for batch processing 100 million+ records a day
- Rewrote authentication microservice in Go, improving performance by 10x (100ms to 10ms)
- Developed predictive service level rate system increasing accuracy and needless purchasing of expensive UPS labels saving tens of thousands of dollars a year

Full-Stack Development

- Created a visualizer tool, resulting in $80K annual savings
- Built automated late fee system, reclaiming $500K+ annually in lost revenue
- Developed multi-tenant application by integrating Menguin acquisition
- Engineered and implemented a responsive marketing website and web application, leveraging modern frontend technologies that adhered to modern standards

DevOps & Infrastructure

- Managed development and production EKS clusters
- Architected a multi-VPC network infrastructure for our services, implementing peering connections to integrate with on-premises networks
- Researched and introduced Sealed Secrets as an innovative solution for secure secret management in Git repositories

Business Systems

- Designed flexible coupon and marketing systems for complex promotional rules
- Developed partner program supporting various B2B models

Technical Skills

- Languages: Python, PHP, Node.js, JavaScript, Go, HTML, CSS, Typescript
- Frameworks & Libraries: Laravel/Lumen, Django, Flask, NextJS, Express, React
- Cloud & DevOps: Docker, Kubernetes, AWS, Serverless, SQS, SNS, Lambda
- Databases: PostgreSQL, MySQL, DynamoDB, Redis
- ML & Data Processing: Keras, Scikit-learn, Luigi
- Architecture: Microservices, REST, GraphQL

Junior Web Developer

Ghosttunes | May 2015 - November 2016

Key Accomplishments

Web Development

- Built and maintained websites for Garth Brooks and Trisha Yearwoods with a focus on user engagement
- Developed an audio player for the Ghosttunes website in plain Javascript, Html and CSS enhancing functionality
- Contributed to backend development and integration of various sources

Technical Skills

- Languages: Html, CSS, Javascript, PHP
- Frameworks & Libraries: CakePHP, Laravel, jQuery

Education and Training

Code Louisville

Completed 2013

Frontend Track: Acquired skills in HTML, CSS, JavaScript, and responsive web design.
Backend with PHP Track: Gained proficiency in PHP, MySQL, server-side scripting, and web application development.