

CHRISTOPHER LANE

Buford, GA
Phone: (954) 270-6136
Email: chrislane123@att.net

SUMMARY

Resourceful Senior Software Engineer with 15+ years of experience in software architecture and development, specializing in cloud-based solutions, microservices, and AI-driven automation. Proven track record leading remote, distributed teams through complex migrations across large multi-module codebases. Experienced in multiple programming languages (Python, JavaScript, Go, C++, Ruby), producing clear technical documentation, and advancing AI research integration. Skilled in verifying software behavior correctness, analyzing feature implementations for edge cases, and delivering high-quality solutions in Agile environments.

TECHNICAL SKILLS

Design and implement information systems across cloud platforms (Azure, Google Cloud), containerization (Docker, Kubernetes), and multiple operating systems (Windows Server, Linux, macOS)

Expertise in multiple programming languages and frameworks: Python, JavaScript/TypeScript, Go, C++, Ruby, C#, .NET Core, Blazor, React, Angular, NodeJs.

Proficient in DevOps (CI/CD, Terraform, GitHub Actions), databases (SQL Server, MongoDB, Redis, Cosmos DB), RESTful APIs, GraphQL, and cloud-native microservices architecture.

Strong background in AI/ML integration, Agentic workflow and orchestration, automated testing, Experienced with multiple platforms including Claude, ChatGPT, Codex, Abacus RouteLLM and others.

TECHNICAL EXPERTISE

Cloud Platforms:
Azure, Google Cloud Platform

Languages & Frameworks:
C#, C++, VB, Java, Python, .NET Core, Blazor, React, TypeScript, NodeJs

Web & API:
ASP.NET Core, GraphQL, gRPC, WebSockets
Front-end: React, Angular, Vue.js, Webpack, Sass

MANAGEMENT EXPERIENCE

Managed integrated application development and architecture projects in complex distributed environments for multi-billion dollar financial and logistics companies. Led and mentored cross-functional development teams; managed stakeholder relationships across all levels of management.

BUSINESS KNOWLEDGE

Experienced in financial, healthcare, multimedia and ecommerce business sectors, developing packaged software and enterprise business solutions. Familiar with the concepts and processes of accounting, supply chain management, order processing, inventory control, billing, purchasing, and customer information. Experience in analyzing key business requirements and strategic objectives to develop cost-effective solutions.

PROFESSIONAL EXPERIENCE

Pawdio Corp. (Self-Employed) – Founder & Principal Architect
Buford, GA

From: 03-2024 To: Present

Databases:
MS SQL, Azure SQL, Cosmos DB, Redis, Elasticsearch, MongoDB, TSQL

Containerization & Orchestration:
Docker, Kubernetes, Azure Kubernetes Service (AKS)

DevOps & CI/CD:
Azure DevOps, GitHub Actions, Jenkins, Terraform

Monitoring & Analytics:
Application Insights, ELK Stack, Prometheus, Grafana

Authentication & Security:
OAuth 2.0, OpenID Connect, Azure AD B2C, OWASP

AI & Machine Learning:
MS Agent Framework, OpenAI API, Azure Cognitive Services, TensorFlow, PyTorch, OpenCV, Tesseract OCR, LangChain, RAG Pipelines, NLP, Computer Vision, Prompt Engineering

- Architected and deployed a multi-tenant, AI-native SaaS platform automating end-to-end operational workflows (Lead → Scheduling → Retention) for service-based businesses, replacing traditional CRUD user interfaces with deterministic, conversation-driven agentic workflows.
- Engineered an autonomous AI Receptionist & Intake engine using Python, LangChain, and LangGraph to handle multi-channel orchestration (Voice, SMS, Web, Social) via an event-driven microservices architecture; built state machines that handle intent determination, dynamic pricing, and deposit collection with zero human intervention.
- Developed a localized computer vision pipeline utilizing PyTorch, OpenCV, and vision LLMs to perform rapid image analysis on customer-submitted photos, automatically extracting structural data points (breed, coat condition, complexity metrics) to feed a custom dynamic pricing model.
- Implemented a sub-graph Agentic RAG architecture backed by Pinecone vector databases to parse and convert structured and unstructured telemetry—such as voice dictation logs and past service history—into immediate, actionable business logic (Service Planners, Upsell Recommendations, and Predictive Retention models).
- Designed a predictive modeling layer utilizing scikit-learn and historical booking metadata to forecast customer cancellation probabilities, no-show risks, and technician utilization sequences, generating automated mitigation workflows that increased business throughput.
- Built a natural language Business Intelligence (BI) layer that abstracts complex SQL/NoSQL data schemas into a conversational analytical interface, allowing non-technical business owners to query real-time performance analytics and receive structured diagnostic conclusions.

- Spearheaded AI research using LLMs (OpenAI API, LangChain) for intelligent code review and test generation; built ML data validation with Python/scikit-learn in an effort to reduce QA time.
- Led fully remote, distributed engineering team; championed Agile workflows and mentored developers in modern practices.

Tech: Python, TypeScript, LangChain, LangGraph, OpenAI/Anthropic APIs, PyTorch, OpenCV, Pinecone, Docker, AWS, PostgreSQL, Redis, Event-Driven Architecture, Agentic RAG

CreditServe – Lead Software Engineer

From: 03-2024 To: 01-2026

Pflugerville, TX

- Spearheaded AI engineering research leveraging OpenAI API and LangChain architectures; built production-grade LLM multi-agent workflows for automated intelligent code reviews and context-aware test generation, cutting overall QA cycle times by 45%.
- Architected and implemented AI-driven ML data validation pipelines using Python, scikit-learn, and vector search embeddings to intercept anomalous transaction data, reducing false-positive credit validation bugs by 30%.
- Orchestrated an automated system verification framework via Python and JavaScript that integrated automated regression suites directly into Azure DevOps CI/CD gates, boosting deployment velocity by 40%.
- Led the migration and containerization of legacy web applications to a highly scalable modern microservices architecture (Go, Blazor, Angular, React) on Azure Kubernetes Service (AKS), optimizing real-time credit scoring workloads and slashing system latency by 50%.
- Directed a fully remote, distributed team of 7 developers in an Agile environment; authored critical architecture design records (ADRs) and migration runbooks that eliminated knowledge silos and halved onboarding times.

Tech: Azure, Docker, Kubernetes, CI/CD, C#, C++, Go, Python, JavaScript, TypeScript, .Net Core, Blazor, React, Angular, NodeJS, Ruby, SQL Server, Redis, GraphQL, gRPC, scikit-learn, OpenAI API, LangChain

Jack Henry & Associates - Senior Software Engineer Lead

From: 05-2019 To: 02-2024

Monet, MO

- Designed and deployed an intelligent computer vision data pipeline utilizing Python, OpenCV, and Tesseract OCR to automate the extraction of unstructured financial documents; integrated Azure Cognitive Services to cut manual document data-entry time by 35%.
- Pioneered automated system verification architecture using Python and PowerShell automation, reducing production edge-case vulnerabilities by 30% and boosting infrastructure monitoring operational efficiency by 20%.
- Spearheaded the transition of a massive, legacy 50+ service financial platform into cloud-native microservices (.NET Core, Blazor, Azure), driving a 40% increase in distributed system resilience.
- Revamped the enterprise Azure DevOps CI/CD strategy by embedding strict automated correctness verification and gated check-ins, successfully lowering cloud deployment times by 25%.
- Mentored 6 senior and mid-level engineers on scalable system designs, OWASP security principles, and high-quality technical documentation, maintaining a highly stable flagship WinForms financial product line.

Tech: Azure, Azure DevOps, CI/CD, C#, C++, Python, JavaScript, .Net Core, WPF, Blazor, Elasticsearch, SQL Server, Redis, NodeJS, OpenCV, Azure Cognitive Services

Ability Commerce - Senior Software Engineer Lead

From: 03-2016 To: 05-2018

Delray Beach, FL

- Championed modern architecture for a scalable, cloud-based data service for the flagship order management system, analyzing feature implementations for correctness across a large existing codebase.
- Created Python and JavaScript code generation utilities; implemented CI/CD pipelines improving reliability of the CSLA layer with new RESTful services.
- Designed MVC-based containerized user management utility for secure role administration. Mentored developers in DevOps, Agile, and producing clear technical documentation.

Tech: Azure, CI/CD, C#, Python, JavaScript, .Net Core, SQL Server, MVC, WCF, React, OWASP, jQuery, Agile workflow

Allin Interactive - Senior Software Engineer

From: 11-2014 To: 09-2016

Fort Lauderdale, FL

- Refactored and greatly improved overall security and manageability of Allin's Flagship interactive multimedia and entertainment solution.

- Successfully modernized legacy system modules includes migrating to the cloud.
- Reduced overall workload by creating several utilities and processes to eliminate repetitive and tedious tasks including rebranding.
- Mentored to colleagues when required and assisted in testing and debugging as new releases became ready.
- Provided end user documentation as required for new development as well as upgrades and changes to existing modules.

Tech: Visual Studio Ent., SSMS, Xcode, TFS, MSSQL, C#, Java, Objective C, Java, .Net Framework, WinForms, MVC, WCF, AJAX, XML, HTML, CSS, Knockout, JSON, Unity, Razor, Claims Based Security, ASP, jQuery, JavaScript. TDD and Agile workflow

MedTel - Cardiologist - Senior Software Engineer

From: 02-2011 To: 09-2014

4800 T-Rex Ave, Boca Raton, FL 33431

- Principal Engineer SW Engineer in refactoring of Cardiostation, a regulated cardiology application for ECG
- Viewing, pacemaker/ICD workflows, scheduling, clinical reporting, messaging, and patient/device data management, while maintaining validated behavior and regression-test integrity.
- Design and developed client Android App to host the monitoring engine which communicated over TCP/UDP to the monitoring station where data was analyzed in real time by physicians.
- Designed and authored all new monitoring screens in ASP that plotted real time data from patients wearing Cardiostation equipment.

CERTIFICATES - LICENSES

MCPS: Microsoft Certified Professional - Microsoft, License F210-7874

MS: Programming in C# - Microsoft, License F210-7876

MCSD: Web Applications - Microsoft, License F270-9892

Licensed Journeyman & Master Electrician — Broward, Dade, and Palm Beach Counties