Adam Bourg
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Denver, Colorado
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Skills

Cloud Providers: AWS (EC2, S3, Lambda, SES, SNS, Route53, KMS, CloudFormation, CloudWatch, CloudTrail) · Azure (Container Apps, Compute, Functions) · Vercel · Railway
DevOps: Kubernetes (EKS, AKS) · Docker · Terraform (IaC) · GitHub Actions (CI/CD) · GitHub Codespaces · Observability (Datadog, New Relic) · Bash
Frontend: React · Next.js · Redux · TypeScript · Storybook · MUI · HTML · CSS
Backend & APIs: Node.js · NestJS · Express · GraphQL · REST · Microservices · SQL
AI/ML: OpenAI API · LangChain · RAG Systems · Hugging Face · Vector Databases (Pinecone, pgvector), N8N
Databases: PostgreSQL · MySQL · Microsoft SQL Server · Redis · Pinecone

Professional Experience

Charter Communications contracted through Apex Systems - Remote **2025 - 2026**
Contract Senior AI Developer
• Built a N8N automation workflow for customer support teams to automate feedback delivery from the field to agents to resolve customer support issues quicker
Key Tech: Python, Pytorch, LiteLLM, LangChain, LangGraph, N8N, AWS, Claude Code

ServantIO contracted through HomeCoders - Remote **2025 - 2025**
Contract Full Stack Developer
• Built a robust backend service to service the needs of a client's mobile bible application
• Built an AI interface to take news articles, perform analysis and compute sentiment analysis
• Built a full stack Nest, React Application to help single mothers keep their children out of foster care
Key Tech: NodeJS, NextJS, ReactJS, GraphQL, NestJS, OpenAI, LangChain, Vercel, Railway, Claude Code

Eli Lilly contracted through DMI - Remote **2024 - 2025**
AI Developer
• Developed security solutions using LLM Guard to protect AI from PHI and PII for a major health care client.
• Collaborated with cross-functional teams to ensure the successful implementation of security measures.
Key Tech: Python, LLM Guard, LangChain, Redis, GitHub Actions, GitHub Codespaces, Docker, Kubernetes, AWS

CoBank contracted through TekSystems - Greenwood Village, Colorado **2024 - 2024**
Lead Software Engineer IV (AI)
• Developed a custom account management portal in React from scratch for CoBank.
• Mentored and coached college graduates on React and Node.JS development techniques.
Key Tech: React, Typescript, NodeJS, Storybook, Bootstrap

Pomp Beauty, Inc - Denver, Colorado (Startup) **2023 - 2024**
Senior Software Engineer
• Built a compliance tool to track contracts and agreements signed between the firm and all their contracted Estheticians leveraging GraphQL, NodeJS, Koa Framework
• Conducted an audit to determine application security threats and created a security mitigation plan
• Educated our content team on fundamentals of Prompt Engineering to help them increase the ability to deliver more high quality content within the Pomp brand voice
• Built an AI assistant using OpenAI's Assistant API to take the skin survey data a user fills out, their name, the estheticians promo code and generate a first contact introduction message that can be sent via text message
Key Tech: React, Typescript, NodeJS, GraphQL, PostgreSQL, OpenAI

PwC, through MBO Partners (W2 & 1099) **2018 - 2022**
Senior System Architect | DevOps & Engineering Leadership (Contractor)

Project: Technology Risk Framework
• Designed and architected PwC's Technology Risk Framework, a compliance case management tool built in collaboration with IFS, transforming a manual Google Sheets process into a scalable platform leveraging React, Node.js, PostgreSQL, and Azure.
• Streamlined compliance evaluation for over $500M in software development, supporting 5,000+ daily users and 1,000+ active products, ensuring legal and brand compliance across 168 global member firms.
• Managed end-to-end delivery including scope, software design, project timeline, client relationships, and a $300K budget over a one-year engagement, while ensuring enterprise-grade security and reliability.
Key Tech: React, Typescript, NodeJS, VueJS, Postgresql, GraphQL, Azure Compute, Docker, Kubernetes, Gitlab pipelines

Project: Third Party Tracker
• Built and deployed a global compliance portal for a major automobile company in Brazil and Italy, enabling risk investigation across 800+ suppliers, vendors, and dealers. The platform directly supported over $500M in annual gross sales by ensuring vendor compliance and transparency.
• Led two distributed teams (9 engineers in Bangalore and 3 in the USA) while remaining hands-on in development, contributing core features in Node.js, React, and PostgreSQL. Implemented Azure DevOps CI/CD pipelines, containerized deployments, and cloud monitoring to ensure scalability, high availability, and secure operations.
Key Tech: React, Typescript, NodeJS, Postgresql, GraphQL, Azure Compute, Docker, Kubernetes, Azure KMS

SlingTV -- Denver, Colorado **2016 - 2018**
Engineer Team Lead (Contract) through Qwinix
• Implemented integration with Gitlab Pipelines for automated deployments to S3 and for automated CI/CD
• Led a team of 12 engineers to rebuild the account portal using React JS with Redux talking to newly built Java Spring Microservices. Deployed this application to serve 2.2 million customers of SlingTV
Key Tech: React, Javascript, NodeJS, Postgres, AWS, Java, Spring, Redux, GitLab, Ruby, GraphQL, Gitlab pipelines

Earlier Experience (2009 – 2016)
Held various engineering roles at Active Junky, UnitedHealth Group (Optum), Gloo, USDA, and Colorado State University. Work spanned web development, API design, HIPAA-compliant applications, performance optimization, and team leadership across startups, enterprise, and government.
Key tech: Javascript, Jenkins, AWS, Ruby, Rails, PHP, Coldfusion, Bash

Indie Projects

• **AI Music Generation Project (lil-gram)**: Created an AI-generated rapper persona using generative music tools and released original music to streaming platforms. Produced and distributed original music with additional releases in development. Also, leveraged gen AI to create videos and build marketing materials.
• **Autonomous AI R&D Homelab**: Built a local experimentation environment using n8n, Ollama, and custom workflows to support rapid prototyping. Developed a voice-to-software pipeline that converts spoken ideas into structured product requirements and working prototype code.
• **Personalized RAG Knowledge System**: Engineered a local vector database + retrieval pipeline aggregating 10+ years of personal writing, AI conversations, and emails. Enables local LLMs to generate content in my writing style and maintain contextual awareness across active projects.

Education

Colorado State University
Bachelor of Science in Applied Computing Technology (Degree earned)