

Benjamin Corbett

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

Summary

Full-stack Software Developer specializing in AI-powered applications, retrieval augmented generation (RAG), and serverless cloud architectures using AWS and Azure. Proven track record delivering measurable improvements in secure production systems and enterprise platforms. Experienced building scalable AI pipelines, developing full-stack applications and APIs, and integrating cloud services across complex enterprise systems.

Technical Skills

Languages: Python, TypeScript, JavaScript, C#, SQL

Frameworks: React, Next.js, Angular, Node.js, Express, .NET

AI/ML: RAG, LangChain, OpenAI API, Pydantic AI, Vector Databases, LangFuse

Cloud: Amazon Web Services (AWS), Azure, Google Cloud Platform (GCP)

Databases: MongoDB, Azure Cosmos DB, DynamoDB, Firestore

Professional Experience

KLoBot Inc. | Newark, NJ

Software Developer

June 2025 – present

Shipped features across three enterprise products: KLapper, an AI-powered document intelligence platform; NetDocShare, enabling NetDocuments integration with Microsoft 365; and imDocShare, connecting iManage document management to Microsoft 365.

- ▶ Resolved Angular state management bug causing deleted items to reappear after navigation by correcting timeout logic and implementing filtering across all deletion states
- ▶ Increased document Q&A response rate by ~70% by implementing semantic search with citations and ACL-based security for knowledge base content
- ▶ Reduced bulk delete time in Azure Cosmos DB from ~3 minutes to ~30 seconds by implementing concurrent batch processing in a stored procedure
- ▶ Implemented automated integrity checks to detect and remove orphaned records in Cosmos DB
- ▶ Led client deployments for netDocShare and KLapper, conducting installation sessions, product demonstrations, user training, and follow-up support
- ▶ Developed production features across Python, C#, .NET, React, and Angular codebases supporting enterprise document analysis and document management platforms
- ▶ Architected and deployed a production document processing pipeline using OpenAI, LangChain, and Azure Cosmos DB with vector indexing to enable RAG across 10,000+ enterprise documents with semantic search and ACL-based security controls
- ▶ Resolved Excel export failures affecting 10+ concurrent sync jobs by implementing safe dynamic property access patterns in C# and ensuring compatibility with legacy MongoDB records across 45+ export columns
- ▶ Designed a status tracking architecture mapping provisioning states from the C#/.NET backend through MongoDB to Angular UI components and SharePoint site creation workflows
- ▶ Integrated Model Context Protocol (MCP) across the platform stack, enabling validated AI tool connections and dynamic chat UI controls for per-conversation MCP service configuration
- ▶ Awarded “Out of the Box Thinking” recognition (Q2) for identifying excessive token usage in KLapper and introducing agentic RAG techniques with parallel tool execution

KLoBot Inc. | Newark, NJ

Software Developer - Intern

March 2025 – June 2025

Earned early conversion to full-time Developer role within a 16-week internship based on performance. Trained in Python, C#, SharePoint Framework (SPFx), Microsoft 365, Generative AI practices, and Azure cloud development.

- ▶ Delivered production features across NetDocShare, imDocShare, and KLapper during onboarding period
- ▶ Collaborated with senior engineers through code reviews and architectural discussions to ensure production quality standards
- ▶ Contributed production-ready code within the first month, demonstrating rapid technical ramp-up across Angular frontend, C#/.NET backend, and Azure services
- ▶ Worked across the full product suite contributing to document management integrations with Microsoft 365, including SharePoint, Teams, and cloud infrastructure components

Projects

Clarity Edit — AI Job Assistant Application

[Demo](#)

Next.js, TypeScript, AWS Lambda, API Gateway, Amazon Bedrock, DynamoDB, Amazon S3, Amazon Cognito, Amazon CloudWatch, AWS X-Ray, AWS Cloud Development Kit (AWS CDK), AWS Identity and Access Management (IAM), Google Places API

- ▶ Engineered serverless resume processing pipeline using Amazon Bedrock Nova Lite for direct PDF extraction, returning structured JSON with confidence scoring
- ▶ Developed batch delete operations across DynamoDB tables with S3 file cleanup
- ▶ Deployed 3 AI agents via Bedrock AgentCore and Strands SDK for company research, resume-job comparison, and personalized cover letter generation; utilizing OpenTelemetry and Langfuse for observability allowing full trace visibility of LLM calls, tool invocations, and agent event loops
- ▶ Architected least-privilege IAM policies and infrastructure as code using AWS CDK

Coastal Creations Studio — Website & Event Management Platform

[Demo](#)

Next.js, TypeScript, Tailwind, NextAuth, Sanity CMS, Square Web Payments SDK, Resend

- ▶ Implemented event booking and reservation system with secure Square payments
- ▶ Automated customer communications with Resend
- ▶ Built an administrative dashboard enabling Create, Read, Update, Delete (CRUD) operations for events, customer management, payment tracking, refunds, and error monitoring
- ▶ Integrated dynamic pages via Sanity CMS including user blog, photo galleries, and operational hours

AiQ — AI Prompt Engineering Platform

[Demo](#)

React, Vite, Google Gemini API, Firebase, Firestore

- ▶ Architected prompt engineering framework implementing Pentagon methodology (Persona, Context, Task, Output, Constraints) with real-time input validation
- ▶ Integrated Google Gemini API with production-grade error handling, rate limiting detection, and network resilience patterns for reliable AI interactions
- ▶ Designed configurable AI response pipeline with Gemini Flash model selection and markdown-formatted output rendering
- ▶ Implemented Firebase authentication with Google OAuth 2.0 and Firestore data persistence for secure user prompt history and analytics

Education & Certifications

AWS Certified AI Practitioner | 2025

AWS Certified Cloud Practitioner | 2025

Microsoft Certified: Azure Fundamentals | 2025

AWS Agentic AI Demonstrated Microcredential | 2026

Parsity Online Coding Bootcamp | 2023

Amazon Cloud Institute | 2025-present