

# Conner Linzy

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## EMPLOYMENT

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### Area4Labs

Jul 2025 – Present

#### LEAD SOFTWARE ENGINEER

- **Developed Hearby Pro** venue management software that lets owners manage event schedules, platform listings, and customer outreach from a single dashboard.
- Executed a **zero-downtime migration** of legacy frontend infrastructure to a Terraform-managed AWS ECS stack, including DNS cutover.
- Packaged PWAs for the Hearby platform and shipped them to **iOS and Google Play** using Capacitor, with CI/CD for automated deployment.
- Adapted Hearby's search engine into a **unified, multi-entity search** using OpenSearch, enabling cross-entity discovery of events, venues, and artists from a single query.
- Designed a multi-resolution, geospatial indexing pipeline that transforms venue and event data into 13 resolution levels stored in MySQL and Redis, powering an H3 clustering algorithm for performant **map pin clustering**.

### Area4Labs

Apr 2024 – Jul 2025

#### AI/ML ENGINEER

- **Created AskHearby**, an AI-powered, Python-based natural language search engine for Hearby's live event discovery platform.
- Developed a **natural language processing pipeline** in Python by fine-tuning BERT models for Named Entity Recognition and text classification, translating natural language into structured search queries.
- Architected a global, **geospatial query context system** that translates location names into coordinates relative to user position, enabling precise location-aware filtering.
- Built integrations with OpenAI and Anthropic APIs to stream results to a React interface, delivering **a conversational search experience similar to ChatGPT**, but within the Hearby ecosystem.
- Automated ML model deployments with GitHub Actions and S3, versioning artifacts and deprecating stale models to **minimize storage costs**.

### K16 Solutions

Jul 2023 – Nov 2024

#### EDTECH SOFTWARE ENGINEER

- Developed an **automated ETL pipeline** that migrated student and course data between learning management systems with a node.js, AWS Lambda based cloud stack, reducing vendor lock-in and enabling future platform transitions.
- Supported **up to 10 concurrent clients** and consistently met tight migration deadlines.
- Optimized migration code to process terabytes of data asynchronously within AWS Lambda's 15-minute execution constraint, **reducing migration run times by up to 75%**.
- Increased migration content coverage by coding support for **6 new content types**, including citations, discussion forums, and SCORM content.
- Improved developer experience by Dockerizing migration workflows, enabling local debugging and **reducing time to resolution by up to 50%**.

### Area4Labs

Feb 2021 – Jul 2023

#### FOUNDING ENGINEER

- **Built Hearby**, a React / Python live event discovery platform, end-to-end by delivering core application features, notably user accounts, search engine, geospatial services, cloud infrastructure, data ops, and website design.
- Served as **primary technical advisor** during profitability exploration, advising leadership on scope, cost, and engineering tradeoffs while leading most technical initiatives.
- Developed a white-label partner embed system supporting **20+ branded deployments** with unique themes, routing, and feature toggles.

## SKILLS

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<b>Certifications</b>	AWS DevOps Professional, AWS Certified Solutions Architect, CompTIA Project+, CompTIA A+, ITIL Foundation Level
<b>AI / ML</b>	Natural Language Processing, Text classification, Named Entity Recognition, Model evaluation, Large Language Models, Retrieval-Augmented Generation, Prompt engineering, Vector search, CI/CD for ML models, PyTorch, nltk
<b>Frontend</b>	Javascript, Typescript, React, Redux, Next.js, HTML, CSS, Responsive Design, Web Accessibility, PWAs, Mobile Development, Playwright, Sentry, Segment
<b>Backend</b>	Python, Node.js, Docker, Terraform, Linux, AWS, Git, OAuth, GitHub Actions, REST APIs, SQL, PostgreSQL, Redis, Bash
<b>Cloud</b>	EC2, ECS, OpenSearch, CodePipeline, RDS, Lambda / SAM, CloudWatch, SQS, CloudFormation, Route 53, S3

## EDUCATION

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### B.S. in Computer Science

WESTERN GOVERNORS UNIVERSITY

# PROJECTS

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## Cookbooks

COOK-BOOKS.IO

- A web app that automatically extracts recipes from URLs into searchable digital cookbooks with smart tagging and formatting.
- Built with Next.js, React, Node / Express, PostgreSQL, Auth0, Docker, AWS.

## Knowledge Vault

GITHUB

- A portable, offline, and searchable data store built entirely with free and open-source software.
- Built with Python, Javascript, KIWIX, Meilisearch, and Calibre.