

# Dean Cochran

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## Professional Statement

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A Software Engineer with 7+ years of Python experience and expertise in cloud deployment, microservices, and DevOps. Proven track record of developing and maintaining scalable back-end systems, implementing CI/CD pipelines, and deploying production applications using AWS ecosystem and containerization technologies.

## Skills

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- **Programming Languages:** Python (7 years), TypeScript (6 years), Shell (3 years), SQL, C++
- **Data Tools:** PyTorch, Tensorflow, HuggingFace PySpark, DVC, Pandas, NumPy, Scikit-learn
- **Most Used Frameworks:** FastAPI, Flask, Nextjs, Sveltekit, Nuxtjs, Django
- **DevOps Tools:** Docker, Terraform, Ansible, Jenkins, GitHub Actions, Grafana, Sentry
- **Certifications:** [AWS Developer](#), [AWS Solutions Architect](#), [AWS SysOps](#), [AWS Machine Learning](#)

## Professional Experience

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[ChainlinkSRM](#) | Full Stack Developer Team Lead

Remote | 02/23 - Present

- Architected **scalable applications** using AWS, Redis, Python, SQL, AWS, and Sveltekit.
- Maintained **24/7 back-end 'always up' server clusters** ensuring high availability.
- Led development of **robust data pipelines** leveraging AWS services .
- Leveraged AWS services (**e.g., EMR, Step Functions**) to process and transform large datasets.
- Deployed **containerized applications using Docker** and infrastructure as code practices.
- Implemented **data quality monitoring** and **anomaly detection ML models**.
- Collaborated with remote cross-functional teams to optimize performance and deploy scalable solutions.

[Darvis](#) | AI Research Assistant

Nashville, TN | 10/22 - 02/23

- Enhanced **data pipelines** for AI-driven computer vision systems, optimizing workflows in Docker.
- Worked with unstructured data sources to improve performance and data integration.
- Developed components of **ML pipelines**, ensuring efficient data processing and deployment.

[Eurecat](#) | ML Engineer R&D Intern

Barcelona, ES | 06/22 - 10/22

- Created a collection of data management tools using a PyTorch to analyze algorithmic bias.
- Enhanced analysis of model fairness evaluation with SHAP, LIME, Kolmogorov-Smirnov tests.

## Education

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[Universidad de Pompeu Fabra](#) | Master's of Signal Processing

Barcelona, ES | 10/21 - 10/22

- Coursework: Data Science, Deep Learning, LLM AI Agents, RAG, Recommender Systems
- Thesis: [Cochran D. \(2022\). Heterogeneous Graph Neural Network Music Recommendation](#)

[Centre College](#) | Bachelors of Data Science

Danville, KY | 08/17 - 05/21

- Coursework: Data Science, Probability Theory, Machine Learning, Deep Learning
- SGA President of Programming, and Dean's List Recipient

## Projects

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[markdowntailor](#) | AI Enhanced Resume Builder ([github](#))

Philadelphia, PA | 06/25 - Present

- Shipped a **production AI SaaS application in one week**, built solo deployed with **laC, CI/CD**.
- Tech Stack: Nextjs, Shadcn, Drizzle, PostgreSQL, Stripe, Anthropic, AWS, Terraform, Github.

[Dean's List](#) | A personal blog ([github](#))

Philadelphia, PA | 10/24 - Present

- Tech Stack: Sveltekit, SkeletonUI, AWS, Terraform, Github