

Lead Engineer with 25 years experience managing teams, designing interfaces and streamlining data pipelines. AI Integration Expert, Full Stack Developer, Data Visualization Designer, Python Machine Learning Data Analytics, Vibe Code Trainer. Broad experience with energy, infrastructure, product lifecycles & manufacturing supply chains.

Work Experience

DreamStudio.com – Collaborative Data Science 2020 to Present
Project Director for model.earth data science teams visualizing industry supply-chains with location comparison tools. AI interfaces using Rust, Python and NodeJS. Google Data Commons API timelines. Cloudflare and AWS hosting. International trade flow analysis combining Claude, OpenAI, Azure PostgreSQL, Tabulator, ChartJS, D3, Leaflet Maps.

Georgia.org Department of Economic Development 2015 to Present
Programmer Analyst and Web App Developer, Azure SQL, SharePoint, Salesforce, Cognito Forms and CartoDB. Developed directories for Georgia Film, Aerospace, Trade and Recycling using JAM Stack, MS Auth, Google Cloud.

Network Dynamics Lab at Georgia Tech 2018 to 2019
AWS Aurora PostgreSQL app for analysis of mobility changes during hurricanes using X.com data and vector maps. Research on construction apps, energy, logistics and aerospace. Research CV at dreamstudio.com/research.

DreamStudio Interactive – .NET Partner Admin Tools 2000 to 2015
CEO and Lead Software Engineer, UX Design, SQL Database Admin, Rackspace, AWS Hosting. Cloudflare DNS. Developed .NET Content Management Systems for membership management, payments, news and scheduling.

Georgia State Parks and Historic Sites 2000 to 2015
CMS development and hosting for state park websites, enews, events, golf courses and lodge reservations. Campground Host reservation management and background check system. SQL database design and hosting. Wireless ticketing for excursion trains, programming of calendar system and Microsoft point-of-sale integration.

Seaside Institute, Glenwood Park, Grant Park, West End, Midtown 1999 to 2015
eNews and directory databases for economic development projects, realtors and nonprofit foundations. Eight neighborhood association websites, ten state environmental education sites. Hands On Atlanta database.

Interactive Planet, Inc. – Southern Company 1995 to 2000
Lead Programmer and UI Designer developing web apps for power companies, telcos, banks and restaurants. Developed content system for Southern Company and seven state affiliates. Home energy apps and news sites.

Education

Georgia Institute of Technology
Computer Science CSE, 2 semesters toward PhD. Focused on infrastructure, aerospace and construction apps. Software engineering, energy impacts data visualization, SQL, Python machine learning models, JQuery, 3D design.

Michigan State University
Telecommunications, UX Design, Comm Tech Lab, MITN Satellite Network, Internet Guide. 1.5 years toward master's.

University of California Santa Barbara
BA Business Economics, BA Communication Studies, Honors Newsletter Editor, Arts & Lectures Publications. Financial Accounting, Art History, Environmental Economics, C+/Unix, Photography, Screenwriting, Film Studies.

Loren Kevin Heyns

Skills

Computer Programming, User Experience (UX), Artificial Intelligence (AI), Machine Learning (ML), Data Science, Structured Query Language (SQL), JavaScript, Python (Programming Language), JAM Stack APIs and Markdown, Microsoft .NET, Natural Language Processing (NLP), Sustainable Impact Labels, Energy Use, Water and Land Use, Microsoft Business Intelligence (BI), Microsoft Azure, Sharepoint Admin, Salesforce Admin, MS Office, Hyper Text Markup Language (HTML), Cascading Style Sheets (CSS)

Business Solutions / Platforms

Vibe Coding with Claude and OpenAI Codex, Rust and .NET Partner Admin, LibreOffice
Microsoft Azure Postgres SQL, AWS Hosting, SharePoint Intranet Setup, Cloudflare CDN
Google Cloud Platform, GitHub Pages, MailChimp, Mailtrap, ChatGPT API, MS Office/Copilot
DNS Management, Google Analytics, SketchUp, Apache eCharts, D3 Data Visualizations
CognitoForms, Wix, Squarespace, Drupal, WordPress, Zapier, Figma, Jira, Trello, Basecamp

Programming / Development Tools

Claude Code CLI, VS Code, Sublime Text, Cursor, Firebase Studio, WebStorm, YAML, JSON APIs
OpenAI Codex, JavaScript, jQuery, Leaflet, React, NodeJS, NextJS, CartoDB, DuckDB, CSS3, HTML5
Python, Flask, PyTorch, NLP, XGBoost and Random Forest ML, Streamlit, Vite, Bun, DBeaver
C# .NET Core, IIS Admin, Microsoft SQL, Supabase, NeonDB, DuckDB, MariaDB, PostgreSQL, SQLite

UX Design and Generative AI

Adobe Photoshop, Illustrator, InDesign, Premiere, Firefly. Rust, Vercel and Langchain chat interfaces
Hugging Face, Voyage AI, Pinecone RAG, OpenWebUI Llama, OpenAI Codex, React API FeedPlayer
AI video generation with Grok API, Runway, Luma Dream Machine, Pika, CapCut, ComfyUI, FloraFauna
AI image generation with Midjourney, Gemini API, Stable Diffusion, Meta, GetImg, Leonardo API