

## Experience

<b>Model.earth Collaborative Framework</b>	2020 to 2024
Project owner and lead engineer for data visualization teams developing industry comparison tools. Location trend forecasting integrating Open WebUI UX with Google Data Commons API. US and international trade flow analysis combining Python ML, Supabase, D3 and Leaflet maps.	
<b>Georgia Department of Economic Development</b>	2015 to 2024
Programmer Analyst, Senior Software Engineer, JAM Stack Developer, Salesforce, Azure, Cognito. Directories for Georgia Film, Aerospace, Trade and Recycling. Interactive Visualizations, MapBox.	
<b>Network Dynamics Lab at Georgia Tech</b>	2018 to 2019
AWS Aurora PostgreSQL app for analysis of mobility changes during hurricanes using X data. Presentations on civil engineering and transportation. Research CV at dreamstudio.com/research.	
<b>DreamStudio Interactive</b>	2000 to 2015
Cofounder and CEO, Lead Software Engineer, SQL Database Admin and AWS Web Apps. Developed .NET Content Management Systems for membership, news and scheduling.	
<b>Seaside Institute and Glenwood Park</b>	2000 to 2015
News and directory services for New Urbanist design projects, realtors and Atlanta foundations. Websites for 8 neighborhood associations including Midtown, West End and Grant Park.	
<b>Georgia State Parks and Historic Sites</b>	2000 to 2015
Website SQL CMS development and hosting for park events, golf courses and lodge sites. Campground Host management and background check system using C# and Microsoft .NET. Wireless ticketing for excursion trains, AWS hosting of calendar websites and SQL database admin.	
<b>CNN and Time Warner</b>	2000 to 2004
Created management system for satellite news feed scheduling using our DreamStudio CMS. Calendar for Time Warner AtlantaCares integration with Hands On Atlanta project scheduling tools.	
<b>Interactive Planet, Inc. – Southern Company</b>	1995 to 2000
Lead Software Engineer and UX/UI Designer developing membership apps for news emails. Developed content management system for Southern Company and seven affiliates. Created home energy apps and cellular service websites, banking services and restaurant apps.	

## Education

<b>Georgia Institute of Technology</b>	2018 to 2019
Computer Science CSE - 2 semesters toward PhD. Focused on infrastructure and sustainable dev. Software Engineering, Data Visualization, SQL, Python, jQuery, 3D Design, Construction Apps.	
<b>University of California Santa Barbara</b>	1986 to 1991
BA Business Economics, BA Communication Studies, 1.5 years toward Masters at Michigan State. Financial Accounting, Art History, Screenwriting, Photography, C+/Unix, Environmental Economics.	

Loren Heyns

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## Technical Skills

### **Business Tools / Platforms**

Google Cloud Platform, Cloudflare Hosting and DNS Management, GitHub Pages, GitHub Actions  
AWS, Azure, SharePoint, Microsoft Power BI, Salesforce, Tableau, Databricks, SketchUp, Autodesk  
Squarespace, Wix, Apache eCharts, ObservableHQ D3 visualizations, Zapier, Jira, Trello, Basecamp  
Google Data Commons API timeline visualizations, Cognito Forms, Drupal, WordPress, Django  
MailChimp, Mailtrap, Google Analytics, Excel AI, Microsoft Copilot, ChatGPT Actions

### **Programming / Development Tools**

JavaScript, jQuery, Leaflet, MapBox, Node, React, NextJS, Bun, C#, .NET Core, IIS Admin  
Python, PyTorch, NLP, XGBoost and Random Forest ML, Streamlit Python UI  
Supabase, DuckDB and Spark SQL, PostgreSQL, Microsoft SQL, SQLite, CartoDB maps  
Sublime Text, VS Code, WebStorm, GitHub Actions, YAML profile apps, CSS3, HTML5

### **Generative AI and UX/UI Design Tools**

Llama OpenWebUI, OpenAI GPT Actions, RAG, Hugging Face, Json API feed widgets  
AI Video generation with Runway, Luma, Pica Labs, Leonardo, Replicate API  
AI Image generation with Midjourney, Stable Diffusion with GetImg.ai, Stability.AI Assist  
Adobe Photoshop, Illustrator, InDesign, Adobe Premiere and CapCut video editing

CV at <https://dreamstudio.com/research>

Active Projects at <https://model.earth/projects>