

# Michael 'Mike' Davis

APPLIED AI DEVELOPER · RESEARCHER · GENERALIST

US Citizen | Huntsville, Alabama | UTC -5 ±6

✉ mike.davis@posteo.net 🏠 <https://i-am-mike-davis.github.io>

## Experience

### Innovation Lead

Huntsville, AL

ARCARITHM "ARCHITECTURE + ALGORITHM"

2022 - Present

- Conceptualized, developed, and led “go to market” (GTM) campaign to build and ship on-premise, self-hosted Large Language Model (LLM) AI Assistant suite for privacy-conscious organizations in Fortune 500 and government (comparables include Mistral’s Le Chat), granting access to \$800M+ in contract opportunities and increasing overall company productivity by 20%, and closed room operations by 500%. Product is under consideration for deployment within NASA.
- Develop new LLM-powered features for the AI Assistant application including text, image, agentic, multimodal, and workflow application features.
- Coordinate development of company research portfolio by organizing development teams, pioneering new product concepts, exercising thought leadership, organizing research efforts, publishing market research, and conducting research.
- Write proposals, supporting \$5B new business acquisition pipeline. Conduct business development meetings, briefings, demonstrations, and represent company at conferences.
- More Hats I Wear: Company Open Source SME, Full Stack Artificial Intelligence Engineer, AI Lab Cluster Manager, Nextcloud Administrator, AWS Administrator, Linux Sysadmin, Project Manager, Proposal Writer, Business Developer.

### Operating Systems Engineer

Huntsville, AL

DYNETICS

2020 - 2022

- Developed custom linux-based operating systems and hypervisors supporting autonomous vehicle systems.

### Pharmaceutical Researcher & Project Engineer

Multiple

EVONIK LABORATORIES AND SPECIALITY CHEMICALS

2016 - 2020

- Collaborated with a cross-functional team to conduct experimentation, analysis, and scale-up of injectables for clinical trials supporting \$1M+ campaigns.

## Projects

### ollama-admin-ui

DESIGNER/BUILDER

2025 - Present

Ollama does not come with a built-in model management graphical user interface nor a list of downloadable models. ollama-admin-ui addresses these issues by exposing ollama model management via a webgui.

### LLM Creative Studio Platform for Autonomy Enthusiasts and Researchers

DESIGNER/BUILDER

2024 - Present

Self-hosting AI systems comes with many benefits; by designing and building an affordable, long-term, sustainable, on-premise LLM inference workstation for development, agentic research can be accelerated by lowering compute cycle costs.

### Simonides

DESIGNER/DEVELOPER

2021 - 2022

Developed a personal finance assistant that uses post-modern portfolio theory and monte-carlo simulations to help optimize my 401(k) portfolio using python, numpy, pandas, matplotlib, and yfinance.

## Skills and Super Powers

**Super Powers** Risk Taker, Connecting Dots and People, New Product Development, Insight Engine

**Languages** Python, Bash, Javascript, HTML/CSS/HTMX, Markdown, SQL, Java, English, Spanish, Business Development

## Education

### University of Virginia

Charlottesville, VA

B.S. IN CHEMICAL ENGINEERING, MINOR IN ENGINEERING BUSINESS

August 2012 - May 2016