Joshua Fink

Software Engineer | Entrepreneur | Problem Solver

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🎓 Education

University of Michigan, College of Engineering   Sept. 2022
B.S.E. Computer Science (Magna Cum Laude), Engineering Honors Program   *Ann Arbor, MI*

Hope College   Apr. 2018
Mathematics Minor, Dual-Enrolled High School Student, Pi Mu Epsilon Mathematics Honor Society   *Holland, MI*

💼 Experience

Software Engineer II   Jan. 2025 - Present
Meta Superintelligence Labs   *Menlo Park, CA*

> Built a high-performance Go/C++ storage driver linking Distribution to internal blob storage, enabling FAIR researchers to store tens of thousands of Docker images for reinforcement learning runs (also cut podman search latency by 97%)
> Integrated an LLM-based semantic search service into an internal data tool and launched interactive onboarding tutorial shown company-wide
> Added artifact rendering and live UI previews to an internal browser-based coding agent, letting developers inspect interface changes without opening VS Code
> Improved agent workflows and MCP tooling for parsing Figma abstract syntax trees to generate UI/UX code; created an icon-matching MCP tool that raised match accuracy from 54% to 98.2%
> Currently extending an LLM-driven Chrome extension to capture inline React component comments on internal sites akin to Lovable and generate actionable commits via a coding agent

Software Engineer I   Mar. 2024 - Dec. 2024
GEICO   *Remote | Chevy Chase, MD*

> Monitored and supported RHEL 7.9 SAS Grid operations, eliminating 75+ service tickets from the backlog within the first two months
> Implemented Azure Databricks monitoring solution, reducing monthly training and inference costs by 50%
> Engineered automated Snowflake OAuth workflows for Python, R, and SAS environments
> Taught weekly Python Data Structures and Algorithms course to 50 coworkers

Founder   Oct. 2022 - Dec. 2024
ClinicPal   *Ghana | Chapel Hill, NC*

> Launched humanitarian clinical assistant software organization with nonprofit Kybele Worldwide to enhance neonatal care globally
> Crafted cross-platform Flutter/Firebase iOS and Android application to help clinicians adopt best practices
> Actively lowering infant mortality by 15% in 4 regional and 20 district hospitals, representing 25% of Ghana's national hospital system

Process Improvement Software Engineer (Engineering Honors Capstone)   May 2022 - Sept. 2022
BrandSafway   *Atlanta, GA*

> Performed quantitative analysis of North American Scaffolding Division processes (130 branches, 8000+ jobs, $1.25b+ fleet value) to identify savings opportunities
> Optimized fulfillment network with Prefect data pipeline, integrating Google Cloud Platform APIs, Gurobi linear programming, and time-series forecasting with company SQL data to improve return on assets
> Implemented strategies projected to deliver $7.5m in savings and 1.4% EBITDA growth over three years

Machine Learning Researcher   May 2021 - Aug. 2021
Big Data Summer Institute, University of Michigan School of Public Health   *Ann Arbor, MI*

> With NLP methods (K-medioid clustering, LDA clustering, TF-IDF, stemming, VADER, BERT), researched connection between COVID-19 vaccine incentives and resulting topics and sentiments on Twitter in Python (PyTorch, Scikit-Learn) and R
> Constructed RShiny application to provide easy interface to apply datasets to team's research

Co-Founder and CTO   Aug. 2019 - Oct. 2022
Opal Medical Technologies   *Troy, MI*

> Developed Flutter healthcare informatics application to streamline operations during emergency pediatric codes after gathering input from physicians, nurses, and pharmacists
> Won $10,000 in equity-free seed funding from Pinkert Healthcare Accelerator, rebranded as ClinicPal after Forbes 30 Under 30 lead

Departmental Ambassador   Aug. 2020 - Dec. 2021
University of Michigan College of Engineering, Engineering 110   *Ann Arbor, MI*

> Co-facilitated two weekly discussion sections, led computer science info sessions, and hosted office hours for freshman engineers

⚙ Additional

Skills Python, C++, Go, JavaScript, React, R, Azure Databricks, SAS, Snowflake, Firebase, Flutter, GCP APIs, Gurobi, NLP, RShiny