

I am a full-stack software engineer especially interested in building user-facing systems at scale which people enjoy using to get their work done with less pain in less time. I make the teams I am on more effective.

Work Experience

Staff Software Engineer <i>AugmentED</i>	AERDF Baltimore, MD (Remote, contract)	2026
- Lead technical design and implementation for research-lead generative AI education tools - Establish and maintain coding standards for a primarily-agentic prototype workflow across all projects		
Staff Software Engineer <i>Digital Service at CMS</i>	Centers for Medicare & Medicaid Services Baltimore, MD	2025
- Technical lead for National Provider Directory, an open source, public-facing healthcare provider directory - Introduced new CI workflow and developer tooling with documentation and training for full-stack Django + React application		
Staff Software Engineer <i>DHS AI Corps</i>	Department of Homeland Security Baltimore, MD (Remote)	2024-2025
- Founding engineer, technical lead, and architect for DHSChat, DHS' first Generative AI assistant (article link) - Lead technical design and implementation of custom, sensitive internal LLM-based applications		
Principal Software Engineer <i>Platform</i>	Recurly Baltimore, MD (Remote)	2022-2024
- Lead design, architecture, development, and integration of a data import tool to support onboarding customer with over 2 million active subscribers including confidential payment information - Lead design and implementation of new GitHub Actions-based continuous integration testing workflow, resulting in an average of 4 hours per-week, per-developer reduction in time spent in peer review - Scale internal background job system by 5x to support growth of subscription payment processing		
Principal Software Engineer <i>GraphQL Platform</i>	Stitch Fix Baltimore, MD (Remote)	2021-2022
- Propose, develop, and implement new metrics for tracking performance of large, high-performance micro-service distributed system - Lead cross-function efforts to design, implement, extend, deploy, and maintain libraries for GraphQL implementors and consumers		
Lead Applications Developer <i>Refugee and Asylum Operations</i>	USCIS Washington, DC	2020-2021
- Independently design, implement, and deploy of novel remote electronic signature collection application under significant time pressure, allowing Asylum officers to maintain COVID protocols while confidently collecting signatures from applicants - Lead system architecture design, implementation, and deployment of new interviewing platform for Asylum and Refugee officers		
Professor, Interactive Arts <i>Creative Coding</i>	Maryland Institute College of Art Baltimore, MD	2018-2020
Lead development and fabrication of campus-wide interactive device network and image generation pipeline used to generate 68,000 unique book covers for the 2020 student prospectus (article link)		

Software Engineer <i>Adafruit.io</i>	Adafruit Industries Baltimore, MD (Remote, contract)	2016-2019
• Design and implementation of custom multi-tenant time series database engine on Dynamo DB • Design and implementation of Adafruit's first subscription billing system, growing from zero to over 3000 customers without billing errors • Scaling fully custom node.js and Ruby MQTT-based Internet of Things service by 3000% • Full frontend rewrite from Backbone.js to React without downtime		
Software Engineer <i>Tixato</i>	Figure 53 Baltimore, MD	2011-2016
• Lead design, development, and delivery of the Tixato theater ticketing platform • Implemented payment processing and merchant payout system supporting over 700,000 tickets sold and more than \$5,000,000 in payments collected		
Web Application Developer <i>Various clients</i>	Smartlogic Baltimore, MD	2008-2011
• Lead engineer on multiple projects responsible for technical design and development of full-stack Ruby on Rails applications for commercial clients ranging from Fortune 500's to new startups • Transitioned from Junior Rails Developer to Technical Team Lead during my tenure		
Application Developer <i>Global Materials Manufacturing</i>	Black & Decker Baltimore, MD	2006-2008
• Designed and built custom applications for materials management, materials reporting, shipping and handling, and quality control. • Design and develop novel process for large scale data import from SAP to SQL Server Reporting Services, enabling near real-time global inventory reporting and planning.		

Education and Certifications

• Graduate coursework, Computer Science , Towson University, MD	2005 - 2006
• B.A. Theology and Education , Concordia University Chicago, IL	1999 - 2004

Technologies and Languages

- **Languages:** Ruby, Javascript, Typescript, Python, Bash, SQL, HTML, CSS
- **Frameworks:** Ruby on Rails, React, Flask, Next.js, Express.js, Django
- **Technologies:** Postgres, Redis, MySQL, AWS, GCP, Azure, GCP, Git, GitHub, Linux, Shell

Other Projects

- **Open source:** extensive collection of [public personal GitHub repos](#) including Chrome extensions, Ruby gems, npm packages, automated source translation tools, web applications, toys and creative code, editor plugins, etc. I learn, play, and explore in public whenever possible.
- **Ruby for Good:** volunteer team lead for multiple [rubyforgood.org](#) in person events and projects
- **Community organizing:** founder of the Baltimore Node hackerspace, 2009
- **Conferences and events:** facilitator and organizer for unconferences in Baltimore from 2009 to 2012, speaker at local tech meetups