

Summary	I'm a practiced architect, enthusiastic learner, and intuitive technical communicator with 12 years of professional programming experience in a broad variety of demanding environments. In my next role, I'm looking to deliver tailored infrastructure and tooling solutions to developers, researchers, and creatives.		
Skills + Languages	Full-Stack Web Development, Cloud Architecture, Identity Management, Tooling, UX, Functional Design, Product Management TypeScript/JavaScript, Clojure/ClojureScript, Terraform, Java, Kotlin, Rust, C, Erlang, Haskell, Lua, C#/F#, Git, HTML/CSS, Web Components, React, SQL, NoSQL, GraphQL, Datalog, FRP, SAC, ECS, AWS, Azure, GCP, JIRA, Agile, Scrum, Kanban, GTD, PKM, Zettlekasten		
Experience	Co-founder, Lead Architect, Design Lead — NuID, Inc.		2017-2022
	+ Designed and implemented an elastic, highly available authentication API and web-based developer portal using Clojure, Java, Typescript, React, Terraform, and AWS (Lambda, SQS, SNS, S3, EC2, Dynamo). + Led small, distributed teams across product development, engineering, and design, which were responsible for onboarding thousands of users to our zero-knowledge authentication service and public key infrastructure. + Increased the productivity of our developer organization by adhering to web standards and frameworks, cost-optimized cloud-native architecture, Agile methodologies, CI/CD, live previews, Git, and infrastructure-as-code. + Collaborated with professor of cryptography and ACM Fellow Jonathan Katz to develop a zero-knowledge authentication protocol for which we were granted patents US 10880089, 11496310.		
	Data Scientist — Microsoft		2015-2017
	+ Led development and analysis of a machine learning model for device age, informing high-level Windows 10 marketing and delivery strategies across the Windows organization. + Wrote and maintained data pipelines in Apache Spark and Hadoop-like architectures powering insights dashboards relied upon by our senior leadership and the CTO of the Windows and Devices Group. + Designed and implemented a compiler and toolchain in C#/F# to improve metric accuracy, reliability, and compute efficiency.		
	Software Engineer — Rustici Software		2013-2015
Education	M.S. Computer Science — Vanderbilt University		2013-2015
	+ Thesis: <i>Design Patterns in Concurrent and Asynchronous Systems</i> + Project: <i>Distributed Online Record Linkage</i>		
	B.S. Computer Science — Vanderbilt University		2011-2015
References	+ GPA: <i>Cumulative 3.777/4.0 — Major 3.854/4.0 — M.S. 4.0/4.0</i> + Completed B.S. and M.S. in 4 years + Fine art minor focusing in drawing and printmaking		
	J.D. Hollis — jd@theconsultingcto.com + Collaborator on infrastructure at NuID		
	Pallavi Baral — pabaral@microsoft.com + Manager and team lead at Microsoft		
Interests	Hiking, Printmaking, Programming Languages, Game Design, Mereology, Music		