NOLAN SMITH

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github.com/usernolan
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Summary

I'm a principled architect, enthusiastic learner, and intuitive communicator with 12 years of professional programming experience in a broad variety of demanding technical environments. In my next role, I'm looking to provide tailored tooling solutions to game developers and artists.

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, Principal 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
+ Contributed to open-source eLearning libraries and browser extensions to increase adoption of an emerging specification and establish new revenue streams for our team.
+ Designed and implemented an open-source conformance suite for testing new and existing library implementations, leading to an ecosystem-wide improvement in compatibility and improving the visibility of our products.

Education

M.S. Computer Science — Vanderbilt University   2013-2015
+ Thesis: *Design Patterns in Concurrent and Asynchronous Systems*
+ Project: *Distributed Online Record Linkage*

B.S. Computer Science — Vanderbilt University   2011-2015
+ GPA: *Cumulative 3.777/4.0 — Major 3.854/4.0 — M.S. 4.0/4.0*
+ Completed B.S. and M.S. in 4 years
+ Fine art minor focusing in drawing and printmaking

References

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