Nicholas Quinn

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Manchester New Hampshire Area **https://nickquinn.dev/**

Dedicated and creative full stack senior software engineer, with experience working in a fast paced Agile environment delivering on critical business requirements. Experienced in developing highly scalable and performant applications in the AWS and Azure with a diverse set of languages and frameworks.

SKILLS AND EXPERTISE

Languages: Python, TypeScript, Go, Ruby, Rust
Frameworks: SvelteKit, FastAPI, Ruby on Rails, Angular, React
Skills: Kubernetes, Docker, Jenkins, AWS, Azure, Terraform

PROFESSIONAL EXPERIENCE

Catchlight (Fidelity Labs Incubator), Merrimack, NH **2022 - Present**
Software Engineer

- Architected and built FastAPI microservices on AWS Lambda with API Gateway and Route 53, implementing RESTful endpoints, database models, and third-party integrations for a GenAI SaaS product.
- Led full-stack migration from Ruby on Rails to SvelteKit, implementing AWS CloudFront Distribution, Prisma ORM for database interactions, and Shoelace Web Components for the UI.
- Drove AWS CDK infrastructure modernization for several services from Terraform, including migration of IAM permissions, ECS clusters, Lambda, SQS queues, and RDS databases.
- Contributed to a Fidelity innersource project to standardize DynamoDB provisioning and optimized CloudFormation retry strategies, reducing deployment failures.
- Built customer facing features for lead and client portfolio pages, improving how financial advisors track prospect details and manage client relationships.
- Developed authentication CLI tool in Go with full CI/CD pipeline for secure, automated distribution, enabling developer self-service workflows in Auth0.

Fidelity, Merrimack, NH **2020 - 2022**
Senior Software Engineer

- Researched, designed, and implemented a custom open-source integration for Azure Kubernetes Service and Azure Storage by extending the CNCF FluentBit collector. Implemented with Azure Managed Identity for security and rigorously tested network and performance.
- Improved existing Python code to enable application teams at Fidelity to easily instrument critical Observability tooling. Engineered for multiple cloud providers such as AWS, Azure, and On-Premise and in different architectures such as Kubernetes, Serverless, and Virtual Machines.
- Engineered and implemented a self-service tool for our users that automates repetitive tasks performed by our Observability team, using the Angular framework and hosted in Kubernetes with a load-balancer and ingress.
- Championed Fidelity's open-source initiative by guiding more than 200 people on the steps to make their first contribution while upholding company standards. Facilitator for Fidelity's open-source committee events.
- Advised dozens of application teams to onboard Observability solutions to implement monitoring

for their application using logs, traces, and metrics based on their specific technology stack and requirements.
- Experienced engineer in the Observability space with knowledge on both open-source and enterprise tools such as FluentBit, Open-Telemetry, Splunk, and Datadog.
- Completed Fidelity's full-stack engineering program, learning both technical and non-technical skills such as Angular, Java, SQL, presentation skills, agile project management, and creative thinking. These skills were demonstrated in a final project with an application team at Fidelity that was delivered to meet their business needs.

BAE Systems, Merrimack, NH **2018 – 2020**
Software Technical Intern III
- Delivered a testing suite using Python and Bash to execute automated end to end tests with results delivered in a GUI. This automation was used by a team of 30 engineers to help catch changes to the project's source code that caused the system to crash or invoke unexpected behavior.
- Improved scripts in Python and Bash to transition the project from using ClearCase to Git. Implementing a more robust file control system helped the team contribute to the project more easily and deliver on business needs.
- Programmed two solutions in Ada to provide system engineers with datasets to perform their job more efficiently.
- Engineered a Python program to parse file headers from 1500+ files written in Ada and C to automatically update them to the latest standard required by our customer.

Kansas State University Catalyst Technology Center, Manhattan, KS **2016 – 2017**
IT Technician
- Aided students and faculty in the college of education at Kansas State University to solve issues with their MacOS hardware and software.
- Entrusted to secure and close two million dollars worth of technical equipment in classrooms after school hours.

United States Army **2012 – 2016**
Human Intelligence Collector
- Led a small team to support an intelligence collection operation at Fort Riley to support current intelligence needs and collaborate with other intelligence teams.
- Deployed and supported a United Nations humanitarian mission in Monrovia, Liberia, participated in U.N. briefings and reported ongoing events to the humanitarian crisis.

CIVIC ACTIVITIES

Contributor, CNCF Open-Telemetry Project **2022**
Participant, American East Hackathon **2017**
Won best domain name after creating a web based application in a 24 hour period with a group of 4 teammates using cloud computing, Next.js, and React.js.

EDUCATION

Bachelor of Science, Computer Science **May 2020**
University of Massachusetts, Lowell, MA Cum Laude