

Alexander Gonçalves

814-933-2927 | schroedergoncalves@gmail.com | alex-g.com | [LinkedIn](#) | [GitHub](#)

SKILLS

Frontend: React, Next.js, React Native, TypeScript, Tailwind, PWA, Redux, Storybook, Playwright, WCAG 2.1

Backend & Architecture: Python, Bash, REST/gRPC APIs, ORMs, Kafka, multi-tenant design, GraphQL, WebSockets

Database and Database Systems: PostgreSQL (query optimization, indexing, schema design, migrations), MySQL, Redis, Cloud SQL/RDS, ETL pipelines

Cloud and Devops: AWS, GCP, Kubernetes (GKE/EKS), Terraform, Wrangler, CI/CD (GitHub Actions), Observability (Prometheus, OpenTelemetry), Sentry

EXPERIENCE

Pathify | February 2024 – Present | Distributed Systems Engineer | [Site](#) **Terraform** | **Kubernetes** | **Python** | **GCP**

- Led architectural initiatives reducing infrastructure spend by \$200K+ annually while improving reliability
- Introduced SLO-driven engineering, aligning product UX decisions with system performance constraints
- Designed backend workflows for automated institution provisioning and white-label domain management
- Partnered cross-functionally to deliver scalable onboarding systems supporting enterprise academic clients

Navengage (acquired by Pathify) | July 2023 – Present | Lead Engineer | [Site](#) **React Native** | **Postgres** | **Node** | **AWS**

Building web and mobile applications for university engagement

- Owned delivery of an **analytics dashboard platform** supporting 16 institutional tenants and 12× MAU growth.
- Ensured WCAG 2.1 AA accessibility compliance across web and mobile surfaces
- Optimized complex SQL queries using indexing strategies and query plan analysis to improve load handling

Comcast | 2022 – 2023 | Senior Engineer (contract) | [Site](#) **TypeScript** | **Next** | **Jest** | **Cypress** | **Storybook**

Architected three marketing sites for a new line of Smart TVs

- Built a composable and performant library of **70+ components** and hooks
- Implemented high-performance rendering strategies across monorepo surface
- Integrated a headless CMS to enable full client control over the website copy and layout
- Leveraged Cypress and Jest in an automated testing suite with GitHub Actions to validate PRs

Virtually | 2021 – 2022 | Software Engineer | [Site](#) **TypeScript** | **GraphQL** | **Google Cloud Platform**

Delivered full stack feature sets for this B2B education analytics startup.

- Built a Hasura service layer over Firebase and GCP infrastructure with ETL pipelines and background jobs
- Integrated Slack and Google Calendar APIs to ingest engagement data into structured analytics models
- Diagnosed and resolved production incidents using GCP observability tooling, improving customer trust

Giglogic | 2015 – 2017 | State College, PA | Cofounder **React** | **Python** | **MongoDB** | **Azure**

In college, I bootstrapped an event management platform that helped artists book shows.

- Designed a service integrating Yelp APIs and search optimization logic to power venue discovery
- Coordinated with thousands of stakeholders to orchestrate over 75 concerts and events
- Generated \$12,000 in revenue through early-stage product development and customer acquisition

EDUCATION

Certification in Full Stack Web Development & Computer Science | **Lambda School** June 2020 - December 2020

B.A. in Philosophy | **Penn State University — Schreyer Honors College**, University Park, PA December 2018