JEREMY PETER KEYS

Senior Backend Software Engineer | B.S., Computer Science

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SUMMARY

Highly motivated **backend software engineer** with 8+ years of experience writing and deploying large-scale, high-performance, **distributed** production **Typescript** (NodeJS) and **Python** 12-factor applications to cloud environments, including **Kubernetes on GCP**, and **AWS**. Proficient in backend feature development, relational schema migrations, GitOps, and infrastructure management. Currently enrolled part-time in a **M.S. of Computer Science** at my alma mater, **New Mexico State University**.

EXPERIENCE

Software Engineer, Backend — Mar '21 — Present

Ginger Labs, San Francisco, CA

- Led the design and implementation of Notability's backend, self-hosted **Audio Transcription feature** (based on Whisper model), including APIs, dataflow, Kubernetes infrastructure, Python socket server and transcription code, analytics, and all other backend elements, which now **processes over 500k hours of audio weekly.**
- Developed **Notability Cloud**'s collaborative note-taking services using **CRDTs**, **NATS Jetstream**, **PostgreSQL**, **Redis**, Websockets (via **socket.io**), **GraphQL**, and **REST** APIs.
- Engineered data pipelines for Notability Cloud, from ingestion to offload to cold storage to stream purging, **processing over a billion messages** per week into a single NATS Jetstream cluster and into cold storage, with zero incidence of data loss.
- Developed and currently operate critical server(-side) and operational infrastructure including **GKE workloads**, **ArgoCD applications**, **Terraform modules**, and **CircleCI workflows**.

- Elicited product requirements and implemented **gifting** for Notability, generating significant revenue ($100k-$1M) since late 2025.
- Developed vanity links for Notability influencers, allowing influencers to link directly to an attributed landing page (with redirect to a **Stripe Checkout Session**).
- Contributed initial and ongoing (backend) **OAuth** implementation for Apple and Google authentication methods for Notability.
- Wrote all Python-side, multi-threaded transcription code for Notability Pro's **Live Transcription** feature
- Worked extensively on various Next.JS sites, contributing both simple React-based frontends and complex server-side props generation code.

Software Engineer, Full-Stack — Apr '18 — Feb '21

Electronic Caregiver, Las Cruces, NM

- Helped build **Addison Care** to improve patient outcomes and lower costs.
- Developed system for invoking animations in Amazon Sumerian scenes via embedded tags in SSML output.
- Contributed Node.JS microservices for Addison Care.
- Managed deployment process for AWS Lambda microservices.

EDUCATION

M.S., Computer Science — Dec 2027 (Expected)

New Mexico State University

15/33 credit hours, 4.0/4.0 GPA. Coursework: Database design, AI, Parallel programming, networking, and automata.

B.S., Computer Science — August 2018

New Mexico State University

Coursework: Discrete mathematics, data structures and algorithms, software engineering, programming languages, operating systems.

SKILLS

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Backend: NodeJS, Python

SQL: PostgreSQL

NoSQL: Redis

API design: REST, GraphQL, Websockets

K8s: GKE, Helm

Infrastructure: Terraform

CI/CD: CircleCI, Github Actions

Containerization: Docker / Compose (K8s)

GitOps: ArgoCD

Timeseries database: Prometheus

Monitoring and alerting: Grafana

Streaming systems: NATS / NATS Jetstream

Object Storage: GCS, S3, R2

Pub/Sub: NATS, GCS, Google Pub/Sub

Webhooks: Stripe, SendGrid

Websockets: socket.io

Cloud platforms: GCP, AWS

Proxies: Cloudflare, nginx

Tracing: OpenTelemetry

Frontend: React, NextJS

LANGUAGES

Typescript / Javascript

Python

SQL

C-like languages

bash/zsh

JSON

YAML

CERTIFICATIONS

AWS Developer Prof. (expired)

AWS SysOps Assoc. (expired)

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