



JOSHUA POTTER

CTO & CO-FOUNDER

Gain | Mar 2024 - Current | <https://www.usegain.ai/>

- Lead engineering efforts on Gain, a startup primarily focused on automating clinical note generation for dental offices.
- Collaborated with private practices and DSOs to build bespoke solutions for their needs:
 - Custom integrations with different PMSs. Projects ranged from writing Windows native C# "bridge" applications to modifying lower-level c-tree SQL drivers.
 - A customizable and durable workflow system for automating front-office admin work. Capable of automating tasks such as revenue-cycle management, post-op care, appointment scheduling, and reminder texts.
 - Analytics dashboards. Included a number of metrics such as those concerning "case acceptance", communication skills, performance measures, etc.
- Managed security considerations (SOC 2, HIPAA) required to handle customer PII (recordings, transcripts, other customer data). Handled compliance and IT relations between Gain and DSOs we worked with.

CONTACT



<https://jrpotter.com>



<https://github.com/jrpotter/>

EDUCATION

B.S. in Mathematics

B.S. in Computer Science

2012 - 2016 UNC at Chapel Hill

LANGUAGES

Bash, C/C++, C#, Elixir, Haskell, Java, Javascript, Kotlin, Lean, Lua, Python, SQL, Swift, Typescript

INFRASTRUCTURE

AWS, Azure, Docker, Fluentd, Grafana, Heroku, Kubernetes, Linux, Nix, Podman, PostgreSQL, Prometheus, Proxmox, Redis, Vercel

FRAMEWORKS

Android SDK, Django, Flask, FRP, .NET, NestJS, React, UIKit, Vue.js, WPF

SENIOR ENGINEER

Avogadro | Sep 2023 - Mar 2024

- Lead engineering efforts on Avogadro, a startup optimizing workflows for chemical manufacturers.
- Developed React-based project management tool specific to the manufacturing pipeline. Included functionality around material acquisition, inventory management, material/cost calculators, and task management.
- Wrote and maintained the IaC used to host features and services on ECS and Heroku.

SENIOR ENGINEER

Obsidian Systems | Apr 2022 - Aug 2023

- Worked on the Smithy project, a cross-platform CI/CD build tool for Nix-specific projects in Haskell. Managed a Nix fork for customized derivation parsing and distinguishing Darwin/Linux dependencies during Nix remote builds.
- Managed the build worker farm as a series of Darwin and Linux VMs on Proxmox.
- Wrote backing caching and garbage collecting procedures for the binary caches used by the Smithy project.

VP OF ENGINEERING

Looped (d.b.a VIPVR, LLC) | Mar 2019 - Apr 2022

- First and lead engineer for Looped platform, a virtual venue service that allows different talent to engage with fans via live, interactive shows or virtual Meet & Greet.
- Developed and lead efforts on Django backend and various microservices, hosted on EKS, supporting in total 500k+ unique users and live events of up to 30k+ simultaneous users.
- Wrote both Android and iOS applications which have received 50k+ (4.6 star) and 100k+ (4.8 star) downloads respectively, as well as the web application powered by Vue.js.
- Managed security and compliance requirements ((FIPS, GDPR, HECVAT, SAQ-A, penetration testing) especially with respect to our large-scale vendors.

SOFTWARE ENGINEER & RELIABILITY ENGINEER

Google, Search | Jun 2016 - Jan 2019

- SWE on Identity & Authentication team. Developed bandwidth-reducing solutions for the "cookie server," a large scale, distributed caching solution for server-side cookie management. Worked on DUSI in anticipation of browser changes proposed by Safari.
- SRE on Union team, a SAAS indexing tool used within the Google search pipeline. Developed tools used to auto-deploy various indexing configurations to clusters globally, an otherwise error prone process of resource allocation and correctly configuring index-to-index dependency chains.
- Wrote a number monitoring tools related to the health of the indexing service.