Brian Clark

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EXPERIENCE (5 YOE)

- **Niche**   Pittsburgh, PA (Hybrid)

  Staff Software Engineer, Back End   *Jul 2022 - Present*
  - **Direct Admissions**: Played an architect role in the massive industry-disrupting Direct Admissions initiative, coordinating six teams over six months to fundamentally change the way college admissions works.
  - **Knowledge sharing**: I arranged 32 lunch talks ranging from how text encoding works to creating inclusive surveys, onboarded five associate through senior engineers, mentored colleagues from other functional groups in back end engineering, and instituted a weekly challenge for engineers to learn golang using retrieval practice.
  - **Culture of Quality**: Building software is a team sport. I have advocated for all developers to shift testing left in the SDLC by reviewing/creating test plans and maintaining automated test suites.

  Senior Software Engineer, Back End   *Jul 2021 - Jul 2022*
  - **Tech Lead**: Served as Tech Lead on our partner fulfillment product team. Worked with product, UX, and engineers to guide technical feasibility discussions, break epics into well-scoped user stories, advocate for resolving tech debt, and act as the technical liaison to other teams that needed input on our subject area.
  - **Batch delivery**: Designed a batch system for storing and delivering leads to partners using cron-like event scheduling in a real-time golang REST microservice architecture.
  - **Salesforce integration**: Developed a reliable two-way integration between BE microservices and a Salesforce org to help Sales and Product teams work more efficiently by ensuring everyone is working from the same data.
  - **pgsql**: Developed and rolled out a library to all Niche services for interacting with Postgres databases instead of each service using boilerplate code for setup/teardown, automatic schema migrations, and runtime configurability.
  - **Observability**: As Tech Lead, I pushed the team to take ownership over monitoring our own production system by aggregating logs usefully and building out dashboards in SumoLogic, rather than relying on SREs to detect issues.

  Software Engineer, Back End   *Mar 2020 - Jul 2021*
  - **Personalized search**: Developed a compare tool to help prospective students directly compare schools by the facts they care most about and enhanced the search tool to allow them to order results on the search page by weighting the factors they care most about (e.g. academics, safety, etc...) using a custom Elasticsearch Painless script.
  - **Partner integration**: Developed an in-house lead delivery system in 3 months to replace an unexpectedly sunset third party platform and seamlessly migrated this mission critical process while reducing operating costs.

- **Epic Systems**   Madison, WI (In Person)

  Software Developer   *Jul 2018 - Dec 2019*
  - **Vaccine Scheduling**: Module owner for a CDSi compliant vaccine scheduling system for millions of patients.
  - **SYSVAK**: Outpatient development lead for integration with Norwegian national vaccine registry.

EDUCATION

- **Case Western Reserve University**   Cleveland, OH

  B.S. in Computer Science, summa cum laude; GPA: 3.945   *Aug 2014 - May 2018*
  - **Student Instruction**: Data Structures supplemental instructor, Software Craftsmanship Teaching Assistant
  - **Groups**: ACM, Tau Beta Pi Engineering Honor Society
  - **Awards**: National Merit Scholar, Andrew R. Jennings Award for Excellence in Computer Science

SKILLS

Languages	golang, sql, python, bash, java
Technologies	docker, postgres, git, kafka, linux, aws, elasticsearch, openapi, oauth, salesforce
Concepts	REST, microservices, unit tests, agile, structured logging, integration tests, concurrency

PROJECTS

count	NLP library and CLI for counting words, sentences, and paragraphs.
babble	Generative Adversarial Network approach to grammar emulation.
ubuntu-setup	Provisioning script to configure a fresh Debian-family Linux install.
goto	Python utility for bookmarking file system locations and quickly navigating among them.
dotfiles	Linux dotfiles and other customizations.