

Abe Kor

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EDUCATION

- **Memorial University of Newfoundland** St. John's, NL
Bachelor of Science in Computer Science; Minor in Mathematics Sept. 2018 – Dec. 2022

EXPERIENCE

- **Sequence Bio Inc. (Y Combinator)** St. John's, NL
Full Stack Developer Sept. 2023 – Present
 - **Application Development:** Led development of new features, critical bug fixes, performance optimizations, and core database refactoring for a Ruby on Rails LIMS managing sensitive genomic workflow data for internal teams.
 - **Security:** Implemented Auth0 authentication with multi-factor authentication (MFA) and role-based access controls to protect sensitive data and enforce security policies.
 - **Major Technology Upgrades:** Led full application migrations from Rails 6 to Rails 8, upgrading dependencies and using Black Duck to identify and remediate security vulnerabilities, significantly enhancing security posture.
 - **QC AWS Lambda:** Architected and developed an automated pipeline in which S3 event notifications push messages to SQS, triggering Lambda functions to parse genomic data and update internal databases.
 - **Family Pedigree:** Designed and implemented a system to map genetic relationships between participant family members, enhancing traceability for research and analysis.
 - **Salesforce Integration:** Built and maintained data synchronization between internal systems and Salesforce, enabling reliable push and pull data operations.
 - **Sentry Monitoring:** Configured real-time error monitoring using Sentry, integrating automated alerts via email and Slack to improve incident response time.
- **Webonise Lab (now Haptiq)** Raleigh, NC /Remote
Backend Developer Sept. 2022 – Sept. 2023
 - **Application Development:** Contributed to the launch of Breakr 2.0. Built and maintained back-end services using the Django framework. Improved API performance, and managed PostgreSQL database architecture.
 - **OAuth 2.0:** Integrated social accounts via OAuth 2.0 (YouTube, Instagram, TikTok, Twitch, Spotify) and built verification flows for artists, labels, and influencers.
 - **Notifications:** Developed the application's notification service for email, push, and in-app messages, including delivery optimization, tracking, queuing, A/B testing, and an internal tool for batch marketing campaigns.
 - **Segment:** Architected, proposed, and developed a bulk data-processing service that sends event data to Twilio Segment and led efforts to create usage reporting, analytics, and tracking dashboards.
- **Metricsflow** St. John's, NL
Software Developer (Co-op) Sept. 2021 – Apr. 2022
 - **Data Analytics:** Developed an analytics dashboard using React to visualize internal product usage metrics.
 - **PowerBI:** Automated reporting workflows to track and communicate marketing performance to key stakeholders.

PROJECTS

- **Happy Hour NL:** A full-stack web app that aggregates local restaurant happy hour deals in Newfoundland. Built using Ruby on Rails. Deployed on Render with dynamic data fetching and responsive design.
- **Cold Email Generator:** LLM-based tool that produces personalized cold emails using vector database similarity between job descriptions and your resume.
- **Bot Detector:** Python-based automation script that identifies and blocks potential bot accounts on Instagram by analyzing user engagement patterns and metadata.

TECHNICAL SKILLS

- **Languages & Frameworks:** Ruby (Ruby on Rails), Python (Django), JavaScript (React), SQL, HTML, CSS
- **Databases & Cloud:** PostgreSQL, VectorDB, MongoDB, AWS (EC2, S3, RDS), Salesforce, Docker
- **Tools & DevOps:** Git / GitHub, CircleCI, Black Duck, Auth0, Sentry, Jenkins, DBeaver, Confluence
- **Development Practices:** Version control, REST API design, Test-driven development (TDD), Continuous integration & deployment (CI/CD)