Abe Kor

http://www.abekor.com

Email : abe@abekor.com
Mobile : +1-709-769-2471

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)