

ALEX LI

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EDUCATION AND RELATED COURSES

Honors Bachelor of Mechatronics Engineering Co-op | University of Waterloo 2024

Programming for Performance with Rust | University of Waterloo: ECE 459 Jan 2024 – Apr 2024

WORK EXPERIENCE & PROJECTS

Genesys | Software Engineer – Front-end/UI May 2023 – Present

- Launched Genesys Cloud Message Integrations UI to 5700+ organizations with HTML, Typescript-React, and Tailwind CSS.
- Directing a migration epic from a legacy Ember.js codebase to a modern Typescript-React framework.
- Reduced manual QA time on releases by 35% through spearheading automated integration testing epic using Playwright.
- Increased unit test code coverage to 98% of the Genesys Cloud Messaging codebase using Typescript-Jest.
- Achieved a ~50 sec decrease on app build/deployment process by optimizing Jenkinsfiles build configurations.

Vidyard | Software Developer – Platform Jan 2023 – Apr 2023

- Delivered Vidyard Video Messages to over 12 million customers using Ruby on Rails and Vue.js.
- Cut deployment conflicts by 12% through integrating Shopify Shipit-Engine with Ruby on Rails to streamline CD.
- Integrated dev-ops processes such as ESLint, Jest, RSpec, and Docker containerization with Github Actions.
- Automated Kubernetes cluster provisioning on AWS using IaC through Terraform and AWS Cloud formation.

Pelmorex (The Weather Network) | Software Engineer May 2022 – Aug 2022

- Led and collaborated on the development of the Weather Insight Text API service, using Typescript-Node, and Express.
- Minimized server hit rate by 8% through designing over 10 aggregated REST endpoints using clustered PostgreSQL queries.
- Reduced API response times by ~660 ms and database calls by 60% by implementing in memory caching with Redis.
- Implemented differential backups by designing AWS lambda Python functions to download and store databases in S3.
- Established 7 new Postman Collections enabling semi-automated API response testing for 50+ endpoints.

HIEC | Software Engineer – Full-stack May 2021 – May 2022

- Established Admin page with Ruby on Rails for apprenticesearch.com, allowing IT to manage over 10,000 user accounts.
- Engineered real-time content preview from a WYSIWYG editor using Ruby embedded HTML for enhanced user experience.
- Reduced average PostgreSQL query times by 42% by creating tables leveraging partitioning and materialized views.
- Achieved a 100% successful rollback rate by writing reversible PostgreSQL database migrations and testing in staging env.
- Increased diagnostics coverage by 74% using the OpenTelemetry Gem to trace errors and reduced error rate by 17%.

KORA | Software & Cloud Engineer Nov 2020 – Jan 2021

- Developed the UI on KORA mobile app's Insights page used by 30,000+ users with React Native, Xcode, and Android Studio.
- Led accessibility feature development for 85% of UI components to support VoiceOver with React Native's accessibility API.
- Eliminated client overfetching and reduced over 150 KB on some API calls by migrating from REST to Apollo Client with GraphQL.
- Reduced MySQL database content retrieval time by over 14% through optimizing indexing and removing subqueries.

TECHNICAL SKILLS

Front-end Dev | HTML5, CSS3, React, Redux, Apollo Client, VueJS, Bootstrap, SASS, Ruby on Rails, Django

Back-end Dev | GraphQL, MySQL, PostgreSQL, SQLite3, NodeJS, MongoDB, Mongoose, Express framework

Cloud and DevOps | AWS, Microsoft Azure, GCP, YAML, Github Actions, Bitbucket Pipelines, Jenkins, Terraform, Docker, K8S

Proficient Languages and Tooling | JavaScript, Typescript, Python, Ruby, C++, Rust, C#, Bash, Git, shell scripting

CERTIFICATIONS

• **AWS Certified Cloud Practitioner by Amazon Web Services** Jan 2022