Matt Kramers

Software Developer | mattkramers@gmail.com | Ontario, Canada

GitHub | LinkedIn | Website

Stack

During my time at **Altis Labs**, I've had the opportunity to work at depth with a wide variety of technologies. I've listed some of the more notable ones below.

- Frontend: React + Typescript (Hooks, Context, Redux, Apollo)
- Backend: Node (Express), Python (FastAPI), GraphQL (Hasura)
- Database: PostgreSQL, DynamoDB, SQLite
- DevOps: Docker, GitHub Actions, AWS (EC2, S3, RDS, Lambda, API Gateway, ECS, IAM, CloudWatch), Terraform
- Testing: Jest, pytest, Cypress, Postman
- Integrations: Auth0, Sentry, LaunchDarkly, SendGrid, MixPanel, Google Analytics
- Other: Celery, RabbitMQ, Serverless, JetBrains, Git, Linux, Bash, Material UI, Figma, Linear, Notion, Slack, Google Workspace

Experience

Altis Labs, Inc.

Lead Software Developer, Toronto

2019 - Present

- **Founding Technical Role**: As the initial technical hire, I led various aspects of web development.
- Medical Imaging Platform: Designed, built, and maintained a comprehensive medical imaging platform:
 - Frontend: Developed a React + Typescript interface with GraphQL (Apollo).
 - APIs: Created context-specific Node (Express) and Python (FastAPI) APIs.
 - Task Pipeline: Implemented a distributed Celery task system.
 - Database: Managed a PostgreSQL database with 100+ tables.
 - **Docker & Deployment**: Utilized **Docker** for local development and **AWS** deployment managed by **Terraform**.
 - **AWS Security**: Established a security-focused **AWS** infrastructure.
 - **CI/CD Automation**: Set up **GitHub** Actions for automated CI/CD.
- **Process Establishment**: Introduced internal development processes and authored the organization's quality management system.
- Mentorship and Team Management: Guided research-oriented ML team in SDLC and MLOps, while recruiting, mentoring, and managing team members. Fostered relationships with product owners, users, and advisors to enhance product quality.

Focal Healthcare Inc.

Lead Software Developer, Toronto

2014 - 2019

- As Focal's inaugural employee, led end-to-end software design and development for two cuttingedge medical devices.
- Created and maintained **C# WPF** desktop software with advanced medical image visualization, 3D image reconstruction, semi-automated segmentation/registration, and user interface design.
- Managed a team of 7 developers, excelled in project management, established internal processes, and ensured FDA 510k/ISO 13485/IEC 62304 compliant software development with complete DevOps implementation.

Robarts Research Institute

Summer Research Student, London

2012

• Developed a **C# WinForms** desktop application for evaluating human performance using a prostate biopsy device.

Education

The University of Western Ontario

M.E.Sc. Biomedical Engineering - Fenster/Eagleson

2012 - 2014

- Thesis focused on Evaluating Human Performance for Image-Guided Surgical Tasks
- Developed a mobile augmented reality app for neurosurgical guidance on Android devices using Java and **OpenGL**.
- Created a human performance evaluation pipeline for image-guided medical devices using custom **C# WinForms** applications.

The University of Western Ontario

B.E.Sc. Electrical and Computer Engineering

2007 - 2012

• Capstone Project: Prostate Biopsy Procedure Performance Evaluator and Replay Application