

KHOA LE

khoale@fastmail.com | (425) 515-4830 | www.linkedin.com/in/khoaleNguyenDang | <https://github.com/lendkhoa>

With over 6 years of experience as an engineer, I possess expertise in building robust and scalable backend systems for tele-health and e-commerce platforms using Ruby on Rails, React, Java, and Python. Through my work, I have delivered maintainable and optimized code that supports a multi-million dollar product line, saving \$200,000 monthly. Additionally, I have streamlined engineering processes, reducing engineering time by 5x through automation and process improvements. I am committed to continuous learning and growth, driving innovation and excellence in software engineering. [I am also a Green Card holder & open to relocation]

WORK EXPERIENCE

Caire Health, Inc.

Senior Software Engineer

New York, NY

August 2023 – Present

- Engineered the first version 1.0 of the patient care journey platform, leveraging NextJS UI components to create a seamless user experience. This innovative feature is projected to boost patient engagement by 30%, setting our platform apart from others in the industry.
- Built and rolled out real-time messaging system with Twilio's SDK. Reduced average response time from 4 hours to 15 minutes (a 90% decrease) by switching from email to text messaging.
- Developed and released a secure User Profile feature with Apollo GraphQL, Auth0, and Python, ensuring HIPAA compliance and reducing administrative time by 2x.

Thirty Madison, Inc.

Software Engineer II

New York, NY

May 2021 – August 2023

- Led the development of a crucial Ruby on Rails feature enables multiple providers to participate in patient treatment, resulting in enhanced quality of care and significant cost reduction (yielding an estimated saving of \$200K per month).
- Helped maintain 5 highly scalable and secure Ruby on Rails micro-services ecosystem, supporting over 300,000 patients. Designed and implemented efficient cross micro-services communication APIs using GraphQL Gateway and Kafka, ensuring seamless data exchange and enhancing overall system performance.
- Designed and deployed Bulk patient assignment feature to allow Medical staff to quickly and securely migrate large amount of patients between providers. Sped up the developer workflows by 5-10x.

Cerner Corporation

Software Engineer

Kansas City, MO

July 2017 – May 2021

- Launched and maintained new Java features for Cerner's Millennium framework, enhancing patient-encounter registration and eligibility services. These improvements resulted in 25% reduction in registration processing time.
- Integrated dependencies to allow transfer of overseas visitor patient data to be used in the UK National Health Service, resulted in 20% decrease in eligibility verification time.
- Architected a purging library to invoke Cerner's CCL to clean up database. Increased efficiency by an estimate of 5-10 % and decreased storage usage.
- Contributed to team's open-source projects. Participated in Cerner's DevAcademy and mentored 4+ engineers.

PERSONAL PROJECTS

Python Trading Bot

Remote, MO

- Automated trend trading on Alpaca with Machine Learning powered by ProsusAI/finbert, outperforming SP 500 by 13% in 2023 backtesting.

EDUCATION

Truman State University

Bachelor of Science in Computer Science

Kirksville, MO

Jan 2013 - May 2017

President's list (2013, 2014, 2015) | International Student Merit Scholarship

SKILLS AND CORE COMPETENCIES

Programming Language: Java, Python, Ruby, Rust, Bash, Typescript, Javascript, SQLAlchemy,

Cloud Computing: AWS/EC2/S3, Heroku, Kubenetes, Docker, Distributed System, Micro-service Architecture

Web frameworks: Auth0, Rails, Mantine component library, Next.js, Node.js, Django, Flask

Infrastructure: REST, Apollo/GraphQL, Kafka, DataDog, Github CI/CD

Databases: PostgreSQL, Redis, MySQL, MongoDB, NoSQL

Health-tech: HIPAA, FHIR