

QUALIFICATIONS SUMMARY

I am a full-stack software engineer with over 10 years of experience in delivering high-quality, scalable and testable code. I am proficient with both backend and frontend technologies across mobile applications and websites, used by millions of users across several projects. I have experience in all stages of software development, including requirements gathering, deployment, testing and on-call support. Throughout my career, I've taken an active role in the non-coding aspects of software development, including establishing service SLOs, creating onboarding and tutorials, and defining on-call responsibilities and runbooks. I excel at explaining complex technical concepts to non-technical stakeholders, ensuring clear alignment on project goals and technologies.

HIGHLIGHTED PROJECTS

Klarna - App Feed Homepage

December 2020 - May 2022

Technologies Used: GraphQL, Typescript, React Native, Jest, AWS

- Built backend and frontend components that displayed the homepage content for the Klarna app, aggregating content from several different teams into an infinite scrollable list.
- Served traffic of one million users who viewed items on the feed, generating 2.6 M USD of revenue
- Mentored junior developers joining the team about the project

Klarna - Wishlist Service

July 2018 - December 2019

Technologies Used: NodeJs, Express, React Native, Postgres, Airtable, Bull, AWS

- Created Express service to allow users to save any shopping item from the internet within the Klarna app
- Built notification that alerted users to price drops from any website, using a Bull queue and automated page scraper to detect price changes
- Implemented logic in both Klarna App (React Native frontend) and service for allowing users to create multiple wishlists. Migration to this new schema performed without downtime.

Klarna - Merchant Directory Service

March 2018 - May 2022

Technologies Used: NodeJS, Express, Sequelize, Postgres, Docker, Jenkins, Airtable, Jest, Redis, AWS

- Built service to manage merchants across twenty countries within the Klarna App. Created jobs that fetched data and prioritised different merchants for display and search. 400M USD of shopping volume attributed to this service, with peak operation during Black Friday exceeding 800 requests per second.
- Responsible for key infrastructure regarding service - created Jenkins jobs for retrieving, deduplicating, and updating merchants and caching layer to ensuring high performance
- Championed development of admin management pages, used by several teams to make critical business decisions and ease team workload

Klarna - In App Browser

October 2017 - July 2018

Technologies Used: React Native, Webkit, Objective C, Kotlin, Java

- Wrapped React Native UI around a Webkit implementation of WebKit browser
- Developed React Native browser and integrate with the underlying browser across bridge
- Integrated page scraping code - background operations performed in headless browser to perform actions on behalf of customers
- Developed test suite to validate automated checkout implementation

Getty Images - Migrate development stack

January - November 2016

Technologies Used: Angular, SCSS, JQuery, Coffeescript, Rspec, HaProxy, Ruby/Rails, Sinatra

- Ported image purchase page from iStockphoto codebase on PHP to Getty Images' Ruby on Rails. Decreased page load time by 50% while preserving appearance and maintaining 30 unique download flows
- Configured load balancer to route iStockphoto.com requests from the old servers to the new, handling dynamic country and language parameters required for SEO. Wrote test suite for validating routing

iStockphoto - CMS Implementation

March 2014 - March 2016

Technologies Used: Autonomy TeamSite, PHP, phpunit, CSS, XML, XSLT, C#

- Designed system to fetch dynamic web pages designed within CMS, with fallback content on error.
- Delivered key pages under tight deadlines - [Homepage](#), [Plugins Promo](#), [Pricing](#).
- Deployed system to update prices on a per-user basis.
- Took responsibility for training individuals on CMS implementation.

Anonymous User Checkout on iStockphoto.com

December 2014 - March 2015

Technologies Used: PHP, Zend, Jasmine, Grunt, MySQL, Angular, phpunit

- Refactored checkout process to allow anonymous users to purchase items.
- Increased testability of the checkout application.
- Developed a session-based cart for anonymous users, creating users during purchase for easier conversion.

ADDITIONAL SKILLS

- **Reliability** - Handpicked to deliver critical functionality under tight deadlines outside target domain for multiple projects (e.g. implement login flow for Klarna App launch, write one-time card frontend PoC)
- **Communication** - Presented synopses of our team's features to the domain (working group consisting of both technical and non-technical people). Present onboarding overview of services
- **Code Review** - For the Klarna Application, I was the fourth all-time merge approver.
- **Mobile Application Development** - As a hobby project, I write Android applications in Kotlin

EMPLOYMENT

Grand Resonance AB

Founder - Software Consultant

June 2023 - Present

Klarna AB

Senior Software Engineer
Software Engineer

December 2019 - May 2022
October 2017 - December 2019

iStockphoto LP / Getty Images

Software Engineer

January 2014 - July 2017

Rytmos

Cofounder, Software Developer, Designer

June 2012 - August 2012

EDUCATION

University of Edinburgh, Edinburgh, UK

BEng in Software Engineering with First Class Honours

Sept 2009 – July 2013