

Ole Krüger

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Recommendation

I was lucky to manage Ole during two years at Standard Chartered. Ole is an ace developer who produces robust, elegant, and minimalist code, with a solid understanding of the finance domain. His exacting standards push other colleagues and teams to deliver their best work. Ole is a fire and forget problem solver that never fails to impress.

José Iborra Lopez, who managed me at Standard Chartered

Work Experience

Standard Chartered Bank, Senior Quantitative DeveloperLondon, April 2020 - now

- Strats team, derivatives pricing, digital channels
- Switched to primarily working on core tasks
- Adapted build system to be able to generate Docker images for the service executables that it builds
- General build system maintenance
- Leveraged Dhall to implement a tool that generates schema-safe Helm Charts using descriptions written purely in Dhall
- Wrote Haskell \leftrightarrow Mu binding generator which provides frictionless usability of Mu code in GHC Haskell
(Mu is the in-house Haskell dialect which is used in our quant library)
- Leading technical aspects of migration on to “cloud” platform
- GHC Haskell, Shake, Dhall, Docker, Kubernetes, Helm

Standard Chartered Bank, Quantitative DeveloperLondon, July 2018 - March 2020

- Strats team, derivatives pricing, digital channels
- Joined a team which develops a pricing service for the use in a new Bank-wide platform
- Primary task was onboarding commodities business onto our platform
- Involved designing and implementing an API for upstream users
- Extensive exposure to caching and warm-up strategies for data-heavy services
- Orchestration and isolation of allocation-intense processes in highly parallel scenarios
- Took on some core tasks in the team’s domain which included improvements to the logging infrastructure, our custom build system, release and deployment mechanism, and fix issues with our in-house configuration language
- Introduced automatic formatting and linting into our CI system
- GHC Haskell, Nomad, Consul, Elasticsearch, Kibana

Standard Chartered Bank, DeveloperLondon, August 2017 - July 2018

- Strats team, general enhancements
- Rapid development of tools needed by various teams within the Bank
- Implemented extensible monitoring system for trades with respect to compliance
- Delivered proof-of-concept for a Legal API as a service
- Developed legal documentation monitoring system for financial market contract negotiators
- Implemented the initial version of a CI orchestration and monitoring service which is relied upon by hundreds of quantitative software developers to test and merge pull requests
- Learned a lot about the dos and don'ts of collaborating in a mono-repository
- Mu (Haskell dialect), various in-house data storage systems, in-house publish-subscribe technology, Elasticsearch, Kibana, PostgreSQL, Sqlite

BAUER Elektroanlagen GmbH, InternBerlin / Hamburg, 2014

- Internship during lecture-free period
- Development and installation of instrumentation and control programs
- Setup and configuration of a building visualization program
- Valuable experience with resource-limited systems such as PLCs

BAUER Elektroanlagen GmbH, InternHalle / Hamburg, 2012

- Pre-university internship
- Development and installation of building automation programs
- Wago, KNX/EIB and DALI
- Spiked my interest in home and building automation
- Lead me to reverse engineer the KNXnet/IP protocol

Hensel Elektronik GmbH, InternRostock, 2009

- School vacation internship
- Reworked internal vacation scheduler system
- PHP, MySQL and IIS
- First contact with proper version control

F1 GmbH, InternBerlin, 2007

- Mandatory 9th grade internship
- Created a search system for financial and grant consultations
- PHP, MySQL and Apache HTTP server
- Increased my interest in backend development

Hard Skills

Language / Environment	Level	Interest
Haskell	*****	*****
Dhall	*****	*****
Rust	*****	*****
Nix	*****	*****
C++	*****	*****
OCaml	*****	*****
TypeScript	*****	*****
Lua / LuaJIT	*****	*****
JavaScript / Node.js	*****	*****
Go	*****	*****
Product / Service	Level	Interest
Kubernetes	*****	*****
PostgreSQL	*****	*****
Redis	*****	*****
ElasticSearch	*****	*****
AWS	*****	*****
Prometheus	*****	*****
MySQL	*****	*****
Operating System	Level	Interest
Linux-based (Arch, NixOS, RHEL)	*****	*****
Windows	*****	*****

Soft Skills

Language	Level
German	*****
English	*****
Spanish	*****