

Ang Yang

Data Engineer - Standard Chartered Bank

Singapore

- Email me on Indeed: <http://www.indeed.com/r/Ang-Yang/0b96b64988b62d22>

Work Experience

Data Engineer

Standard Chartered Bank

May 2018 to Present

Software Engineer with strong fundamentals in Computer Science and Engineering.

Standard Chartered Bank Comfortable with Agile and DevOps centric

Information Technology and Operations - Chief Data Office (ITO - CDO), IM Technology, EDMp Platform development practices. Interested in and Tools. Functional / Type-level Programming.

- Building and maintenance of Spark-based Data Quality Management Framework.
- Made Spark-based project as pure, type-safe, effectful and generic as possible with Cats and Shapeless. Skills
- Implemented schema conversion between Spark, Avro and JsonSchema with Droste(Matryoshka) for recursion schemes.

Programming Languages

Developer

Scala

December 2017 to April 2018

Scala(Cats/ScalaZ/Shapeless), Haskell, Java 8,

DBS Bank Node.js, Python, C, C++(Qt), R, etc.

DBS Bank is a multinational banking and financial services corporation headquartered in Singapore.

- Department of Core Systems Technology, Technology & Operations (CST, T&O) Technical Experiences

- Tasked to take over vendor's Scala / Spark / Hbase based product ETL backend as a part of MAS Notice

639 (Basel II) compliance requirement.

Functional Programming, Type-level

- Advised vendor and relevant parties within CST on existing code smell and Functional Programming programming, Reactive Programming, OOP, motivations leading to Scala best practices.

IaaS/PaaS, Containerisation/Orchestration,

CI/CD, SQL/NoSQL.

Postgraduate Intern (Software Engineer)

Nanolive SA - Lausanne, CH

January 2017 to June 2017

Lausanne, Switzerland) Links

Nanolive is a EPFL startup that develops microscopes that are able to image cells in 3D without the need of chemical staining.

- Internship as part of the NUS Overseas College (Lausanne) programme. LinkedIn: [linkedin.com/in/anghaoyang](https://www.linkedin.com/in/anghaoyang)
- Backend and cloud infrastructure development. Github: github.com/yangzai
- Dockerisation of build and test steps for continuous integration (CI).
- Setup MongoDB schema migration on backend.
- Integrated backend and frontend to error reporting and log monitoring services.
- Explored Kubernetes (K8s) as an option of migration from AWS to Azure for the Startup Bizspark Plus

programme.

- Explored K8s Cluster Federation as an option for multi-region deployment on Azure.
- Ported React.js frontend into Qt Webengine for integration into Qt-based desktop app.
- Rewired backend dependency injection (DI) with Guice.
- Setup Artifactory repository for in-house caching of dependencies and publishing of snapshots.
- Merged PR to backport fixes to Play Framework 2.5.x.

Technologies used include:

- Docker
- K8s
- AWS, Azure, Google Cloud Platform
- Scala(Play)
- React.js
- Node.js/NPM for Webpack
- Qt(C++)
- MongoDB
- Guice for DI
- ELK and Sentry.io for logging and error reporting

Fullstack / Backend Developer

Haystakt - GroupHunt - Heardable - Watchfy

November 2014 to September 2015

Haystakt is a crowd-pricing platform and a marketplace for original, creative products. GroupHunt, a Haystakt pivot, is a platform for community-driven group buying for enthusiasts. Heardable helps users

gather detailed data on their digital marketing footprint for analysis and reporting. Watchfy is a social intelligence platform for influencer marketing.

- PostgreSQL schema migration; experimented with PL/v8 procedures.
- Development of internal tools with NW.js.
- Database migration from legacy MySQL to MongoDB.
- Developed a Node.js service that communicates via Meteor's Distributed Data Protocol (DDP) update

Meteor's frontend and backend database reactively with new data.

Technologies used include:

- Node.js (Express, Koa)
- Meteor.js, DDP
- PostgreSQL
- MongoDB
- Heroku
- NW.js
- Bootstrap/Spacebar

R&D Engineer

GDC Technology Limited
2013 to 2014

GDC Technology is a global digital cinema solutions provider with the largest installed base of digital cinema servers in the Asia-Pacific region.

- Development and maintenance of GDC Theatre Management System software.

Technologies used include:

- Qt(C++)
- TortoiseSVN for version control

Education

Master of Technology in Software Engineering

Part of the NUS Overseas College
January 2016 to June 2019

École Polytechnique Fédérale de Lausanne
January 2017 to June 2017

Bachelor of Computing in Computer Engineering

National University of Singapore
2008 to 2012

Links

<http://www.linkedin.com/in/anghaoyang>