Bruno **Klein**

SOFTWARE ENGINEER · MACHINE LEARNING ENGINEER

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Summary

Current Software Engineer at SAP. 6+ years experience in backend development for cross-industry projects. Also, strongly focused on Machine Learning, Deep Learning and Big Data. Likes to be at the forefront of tools and technologies.

Experience

SAP   *São Leopoldo, Brazil*

SOFTWARE ENGINEER & MACHINE LEARNING ENGINEER   *Apr 2018 - PRESENT*

- Developing and dealing with several Machine Learning able solutions with both structured and unstructured data, supervised and unsupervised. As of now, mainly focused on Natural Language Processing.
- Fine tuning of word embeddings for domain specific use.
- Used existent research to deliver a state of the art correlated timeseries forecasting model built with PyTorch.
- Created microservices for face recognition (FaceNet based) and face detection (TinyFaces based).
- Team lead engineer.
- Docker & Kubernetes.
- Python / TensorFlow / Keras / Scikit Learn / xgboost / GoLang.
- SOLID and DRY enforcer / Code reviewer.
- Setup of Travis CI/CD pipeline
- Nominated for the highest employee award

DeepX   *Porto Alegre, Brazil*

SOFTWARE ENGINEER & MACHINE LEARNING ENGINEER   *Feb 2018 - Apr 2018*

- Elixir and functional programming.
- Docker & Kubernetes.
- Event Notification and Event Sourcing, Kafka based (Martin Fowler's version/definition).
- Brought an entire Microservices system on top of AWS using Kops, before the release of Amazon's EKS.

Health4TheWorld   *Palo Alto, California - Remote*

MACHINE LEARNING ENGINEER   *Nov 2017 - Nov 2018*

- Developed a Deep Learning (ResNet based) model for image regression able to accurately infer a person's age based on chest X-rays.
- Developed a Deep Learning (U-Net based) model for ICH (Intracranial hemorrhage) segmentation.

Server - Retail Software   *Novo Hamburgo, Brazil*

SOFTWARE ENGINEER   *Jun 2013 - Mar 2018*

- Application Profiling and optimization with both 3rd party and in house tools.
- Database migration from Firebird to Postgres.
- Database and SQL queries performance tuning, in some instances up to 10x improvement.
- Developed several APIs and clients for integrations, both RESTful and SOAP based.
- Developed ERP modules and integrations with customer factory systems, bank systems and government systems.
- Code owner of a few mission critical routines (related to law compliance, accounting and government)
- Consistently delivered dozens of complex ERP modules, including an order fulfillment optimizer based on a distributed customer inventory.
- Application telemetry for in production monitoring and debugging.
- Database modeling and normalization/denormalization of complex and crucial business problems.

Education

UNISINOS (Universidade do Vale do Rio dos Sinos)   *São Leopoldo, Brazil*

B.S. IN COMPUTER SCIENCE   *Jan 2013 - Dez 2019*

Skills

Programming   Python, PyTorch, Keras, Tensorflow, SQL, GoLang, Docker, Kubernetes
Languages   Portuguese (Native), English (Advanced)

Publications

INTERNATIONAL

2019   **Proceeding, BRACIS 2019,** Self-Adaptive Appearance-Based Eye-Tracking with Online Transfer Learning   *BRACIS 2019*