Simon Koeten

simonkoeten.com ◊ simonkoeten12@gmail.com ◊ 650-388-0145

Education

Bachelor of Science in Computer Science (August 2018 - December 2021)
University of Colorado, Boulder

Work Experience

Software Engineer (February 2022-Current)
Workiva
- Upgraded Control Management Service by implementing a cross-region syncing tool
- Integrated CMS with Graph DB to create new service, lead refactor of api and service to generically support new graph types as composable building blocks
- Implemented unit, integration, and load tests for the above services
- Pioneered Slack notification system, supporting templates for existing email notifications

Software Engineering Intern (May 2021-January 2022)
Workiva
- Handled full stack (Dart-Kotlin/Java-graph db) tickets, actively contributing to the product
- Multi-repository refactor consisted of consolidating code, file storage migration, and new functionality integration
- Learned about and utilized Spring framework to implement a server messaging fallback

Software Engineering Intern (Summer 2020)
Visa
- Collaborated with a team across the globe to develop an IOS/Android app that allows users to created shared wallets with the aid of Visa API's
- Designed and integrated a Google Firebase NoSQL database for front-end function calls
- Self paced learning: improved python/C++ technical skills, basics of ML/AI

Teaching Assistant (Spring 2020-Fall 2021)
Learning to Work in Teams
- Piloting freshmen program with CU Boulder Engineering and Pluralistic Networks
- Leading students through labs and discussions intending to break down teamwork and communication skills, providing a platform to practice these skills

Technical Projects

NLP - Choice Of Plausible Alternatives (October 2021-December 2021)
- Fine-tuned pretrained models (RoBERTa & DeBERTa) to solve the SuperGLUE COPA problem
- Used Pandas, PyTorch, and Transformer libraries to process data and train the models

Senior Capstone Project (August 2020-May 2021)
- Partnered with the medical hardware company Terumo BCT in a co-op project
- Applied Machine Learning and Artificial Intelligence methods (k-means, regression models, TensorFlow networks, and more) on data pulled from a SQL server to identify trends leading to device failure, all with an eye towards preventative maintenance
- Presented executive summary including concrete AI-driven, actionable suggestions

Skills

Programming Languages
Kotlin (advanced), Java (advanced), MySQL (intermediate), Dart (intermediate), Python (intermediate), DynamoDB (intermediate), C++ (proficient), C (proficient), Scala (proficient)

Tools
AWS Cloudformation (advanced), AWS Web Services (intermediate), Git (intermediate), Docker (intermediate), Kubernetes (intermediate), Maven (intermediate), Gradle (proficient), Spring (proficient)