

Simon Koeten

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Education

Bachelor of Science in Computer Science (Expected Graduation December 2021)

University of Colorado, Boulder

Course Work: Algorithms, Data Structures, Databases, Artificial Intelligence, Machine Learning, Natural Language Processing, Operating Systems, Computer Systems, Cyber Security, Black Holes

Work Experience

Software Engineering Intern (Summer 2021-Current)

Workiva - Reporting Compliance Software Company, Evidence Lifecycle team

- 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 - Financial Services Company

- Back-end contributor in a software development project, see Pyggy Bank project below
- Self paced learning: improved python/C++ technical skills, basics of ML/AI

Teaching Assistant (Spring 2020-Current)

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
- Shaping the project for future freshman classes to include mental health aspects

Technical Projects

Senior Capstone Project

- 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
- Summarized findings and provided possible future avenues in a research document

Zoom into Zoom

- CU Boulder hackathon with an added challenge to learn a new language
- Created a javascript desktop app enabling a user to enter zoom meetings more efficiently
- Users add classes/meetings with a corresponding time, to then receive a notification before the meeting, which would take them straight into the video conference

Pyggy Bank

- Collaborated with a team across the globe to develop an IOS/Android app that allows users to create shared wallets with the aid of Visa API's
- App allowed group and individual messaging, and QR codes to share profiles and groups
- Designed and integrated a Google Firebase NoSQL database for front-end function calls

Ski Base

- Developed a website coalescing data from 10 popular mountains in Colorado
- Tracked the number of days a user spent skiing or snowboarding
- Utilized a weather API for temperature, wind, and snowfall conditions
- Developed an SQL database and integrated it into frontend with Node.js

Skills

Programming Languages

Python (advanced), C++ (advanced), C (intermediate), Java (intermediate), Dart (intermediate), MySQL (intermediate), Javascript (proficient), Scala (proficient), MongoDB (proficient), Cassandra (proficient), HTML (proficient), CSS (proficient)

Operating Systems

MacOS (advanced), Linux (intermediate), Windows (intermediate)