

# Simon Koeten

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## Education

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### Bachelor of Science in Computer Science

Colorado University, Boulder

Expected Graduation December, 2021

### Related Courses

Algorithms, Data Structures, Databases, Cyber Security, Artificial Intelligence, Black Holes, Operating Systems, Programming Languages, Computer Systems, Software Development

## Work Experience

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### Software Engineering Intern (Summer 2020)

Visa - Financial Services Company

- Participated in an software development project, see Pyggy Bank below for details
- Meetings with mentor and software team, along with executive presentations
- Self paced learning: improved python/c++ technical skills, basics of ML/AI

### Teaching Assistant (Fall 2019)

Meaning of Information Technology

- Lead 50 students during discussions relating to the tech industry and provided news on current events about technology
- Formulated lessons to evaluate how we interact with different forms of technology
- Graded midterm exams and nightly homework

## Technical Projects

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### Pyggy Bank

- Software development project with 5 other team members and a project mentor
- 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 contained group chat functionality, allowing communication with transactions

### Ski Base

- Developed a website with 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

### Basketball Analysis

- Data Structures project centered around Hash Tables
- Created and fine tuned a custom hash function to maximize the efficiency of the load factor in the table
- Analyzed data in order to make predictions about teams and player comparisons

## Skills

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### Programming Languages

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

### Operating Systems

MacOS (advanced), Linux (advanced), Windows (proficient)