

KARSON SOMMER

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EDUCATION

THE UNIVERSITY OF IOWA Iowa City, IA
Master of Science, Business Analytics 08/2020 – 12/2021

- 4.00 GPA

Bachelor of Science in Engineering, Electrical Engineering 08/2016 – 05/2020

- 3.86 GPA, Graduation with distinction
- Minor: Mathematics
- President's List 2 years, Dean's List 4 years

TECHNICAL SKILLS

- Tools: MATLAB, Java, C++, SQL, GIS
- Methodologies: Skilled in image processing, software development, and mathematical modelling
- Select Projects:

Strogger 11/2019 – 05/2020

Developed an Android app that provides real-time feedback and analytics on running form in collaboration with a multidisciplinary team which included biomedical engineering and law students

Smart Fire Sprinkler 01/2019 – 05/2019

Designed and constructed a self-aiming fire sprinkler system and Android application for live fire tracking by interfacing stepper motors, an infrared sensor, Arduino, and Google Firebase

EXPERIENCE

UNIVERSITY OF IOWA Iowa City, IA
Teaching Assistant: Database Management 01/2020 – Present

- Instruct 4 one-hour classes per week and hold 3 one-hour office sessions per week
- Review and grade homework assignments for 120 students

ENVENTIVE ENGINEERING

Mathematical Programming Assistant Remote
06/2019 – 08/2019

- Formulated pin in slot tolerance equations and developed code in C++ which were integrated into a new product
- Updated deprecated rendering functions in 100's of LaTeX documents to prevent future errors
- Validated mathematical proofs and identified and fixed software bugs using an internal bug tracker

US ARMY CCDC CHEMICAL AND BIOLOGICAL CENTER

Data Analysis Intern Rock Island, IL
06/2018 – 08/2018

- Summarized over \$6 billion of Army Industrial Base procurement and contractor data for commanding officers
- Prepared a report on the analysis of integrating additive manufacturing into Army production facilities
- Fulfilled data requests from other departments using Microsoft SQL Server daily

ACTIVITIES & LEADERSHIP

OPENSTREETMAP Online
Regional Contributor 12/2019 – Present

- Created over 500,000 nodes, mapping running infrastructure, public landuses, and performing quality assurance
- Developed a unique method to convert heatmaps into paths using image processing techniques in MATLAB

NCAA DIVISION I TRACK AND FIELD/CROSS COUNTRY

Distance Runner Iowa City, IA
08/2016 – 10/2020

- Competed in 7 Big Ten Championships including a team win in 2019
- Coordinated with professors to manage coursework while travelling around the country for competition
- Awarded Big 10 Distinguished Scholar 4 years, Academic All-Big Ten 4 years, Athletic Letter 4 years