# Joel Beck

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### EXPERIENCE

#### Undergraduate Research Assistant

June 2020 – Present

Texas A&M University

College Station, TX

- Developed a REST API using FastAPI and PostgreSQL to store data from learning management systems
- Developed a full-stack web application using Flask, React, PostgreSQL and Docker to analyze GitHub data
- Explored ways to visualize GitHub collaboration in a classroom setting

## Information Technology Support Specialist

Sep. 2018 - Present

Georgetown, TX

Southwestern University

- Communicate with managers to set up campus computers used on campus
- Assess and troubleshoot computer problems brought by students, faculty and staff
- Maintain upkeep of computers, classroom equipment, and 200 printers across campus

## Artificial Intelligence Research Assistant

May 2019 – July 2019

Georgetown, TX

Southwestern University

- Explored methods to generate video game dungeons based off of The Legend of Zelda
- Developed a game in Java to test the generated dungeons
- Contributed 50K+ lines of code to an established codebase via Git
- Conducted a human subject study to determine which video game dungeon generation technique is enjoyable
- Wrote an 8-page paper and gave multiple presentations on-campus
- Presented virtually to the World Conference on Computational Intelligence

#### EDUCATION

## Georg-August-University of Göttingen

Göttingen, Germany

Sep. 2020 - Sep. 2023

Master of Science: Applied Statistics

- Overall Grade: 1.0 (Top 1%)
- Focus: Machine Learning, Deep Learning (NLP)
- Thesis: Bridging Citation Analysis and Language Models: A Hybrid Recommender System for Computer Science Papers

University of Oslo

Oslo, Norway

ERASMUS Study Abroad

Aug. 2018 - Dec. 2018

• Courses in Risk Analysis & Actuarial Science

### University of Mannheim

Mannheim, Germany

Bachelor of Science: Mathematics in Business and Economics

Sep. 2016 - March 2020

- Overall Grade: 1.2 (Top 5%)
- Focus: Statistics, Probability Theory, Econometrics

#### Ludwigsgymnasium Saarbrücken

Saarbrücken, Germany

Abitur

Sep. 2007 - July 2015

• Overall Grade: 1.0 (Top 1%)

#### PROJECTS

## Gitlytics | Python, Flask, React, PostgreSQL, Docker

June 2020 - Present

- Developed a full-stack web application using with Flask serving a REST API with React as the frontend
- Implemented GitHub OAuth to get data from user's repositories
- Visualized GitHub data to show collaboration
- Used Celery and Redis for asynchronous tasks

#### Simple Paintball | Spigot API, Java, Maven, TravisCI, Git

May 2018 - May 2020

- Developed a Minecraft server plugin to entertain kids during free time for a previous job
- Published plugin to websites gaining 2K+ downloads and an average 4.5/5-star review
- Implemented continuous delivery using TravisCI to build the plugin upon new a release
- Collaborated with Minecraft server administrators to suggest features and get feedback about the plugin

# TECHNICAL SKILLS

**Languages**: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, R **Frameworks**: React, Node.js, Flask, JUnit, WordPress, Material-UI, FastAPI

Developer Tools: Git, Docker, TravisCI, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

Libraries: pandas, NumPy, Matplotlib

# SCHOLARSHIP

Stiftung der deutschen Wirtschaft

Oct. 2016 - Sep. 2023

• Awarded for academic excellence and social engagement