Joel Beck

+491711858260 | joelbeck07@gmail.com | linkedin.com/in/joelbeck07 | github.com/joel-beck

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

Southwestern University
Georgetown, TX

- 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

Southwestern University
Georgetown, TX

- 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

Master of Science Applied Statistics
Sep. 2020 – Sep. 2023

- 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