

JAKUB ZOLKOS

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Skills

Languages & Scripting: Python · C/C++ · HTML5/CSS3 · JavaScript · SQL · MATLAB · MIPS Assembly · Git · Bash · Linux/UNIX

Web Development: Django · Flask · PostgreSQL · React · TailwindCSS · Docker

AI & Data Analysis: TensorFlow · Scikit-learn · Pandas · NumPy · Matplotlib

Experience

Engineering Product Innovation Center

Boston, MA

Backend Developer

01/2021 - Present

- Developed a Django application with a PostgreSQL student database for authorizing entry to the facility, enabling migration from file-based storage system
- Integrated the website with the employee clock-in system leveraging personal access cards and Homebase API
- Implemented a student survey collection functionality and administrator panel in the application, allowing management to view visualized statistics of 1000+ past visitors

VIP Lab

Boston, MA

Data Analyst & Researcher

02/2022 - 01/2023

- Collaborated with 5+ people in designing a state-of-the-art convolutional neural network that estimates room occupancy leveraging a system of overhead fisheye cameras
- Developed an optimized algorithm for producing smooth density heat-maps from bounding box data, decreasing program execution time from 15 minutes to 5 seconds
- Saved 10+ hours of weekly work for team members by simplifying data transfer between local and remote machines with an ensemble of Python and Bash scripts

Personal Projects

DrunkAPI

drunkapi.netlify.com

Website with a login system that allows the user to determine their sobriety based on uploaded voice samples. Prediction model was presented at Machine Learning in Poland Conference 2021 (<https://conference2021.mlinpl.org/accepted-talks-and-posters/>)

Portfolio Website

jakubzolkos.netlify.com

The first iteration of a personal portfolio website, written in React and TailwindCSS.

E-Commerce Product API

Store product API for a dropshipping business enabling CRUD operations, written using Django REST Framework.

Education

Boston University

Boston, MA

Computer Engineering | GPA: **3.72** / 4.00

09/2020 - Present

- Machine Learning Concentration
- Dean's List (2020, 2021)
- Member of BU High Performance Computing Club and Data Science Club
- Software Engineering, Algorithms & Data Structures, Machine Learning, Cybersecurity, Computer Networking, Linear Algebra, Statistics