

Benjamin Dosch

Software Engineering | Machine Learning | Database Management

Software engineer looking to relocate, nearing completion of Holberton School Tulsa's Machine Learning specialization. With a background in database management and psychology culminating in 6 years of experience providing resources and helping clients in crisis and distress develop the tools and skills to solve their problems.

PROJECTS

Hunt for Broken Arrow — Kotlin, Firebase, Android Studio

Over a period of 3 weeks with a team of 4, designed, created, and presented an android application MVP to pitch to the Museum of Broken Arrow.

For the purpose of testing our ability to adapt, the team decided to complete the project using no language or platform any team member had previously encountered.

Headed the implementation of the project database and real time content updates in addition to contributions to the UI and all other aspects of development as support.

AirB&B Clone — Flask, SQLAlchemy, Nginx, Django, MySQL, CSS, HTML

As a member of a team of 2, created a simple clone of the AirB&B website hosted on a primary server with a secondary backup.

Implemented a storage engine to switch between file storage and a MySQL database.

Designed an API to provide dynamic content to the website.

Neural Style Transfer — Tensorflow, PyQt5

Leverages a pretrained model to take the style of an image and apply it to another image stored locally and/or on google drive.

Currently developing a GUI to provide a non technical, user friendly experience.

PROFESSIONAL EXPERIENCE

Volunteer, Urban Data Pioneers Cohort 8: Impervious Surfaces — Tulsa Oklahoma | January 2021 - May 2021

Worked as a member of a team of 4 to annotate over 1500 Aerial images of Tulsa by hand, then utilized an AI model to detect impervious surfaces for the purpose of calculating runoff based taxes.

Copresented findings of the project to members of the other projects and the public.

Lead Mental Health Worker, B.R.I.D.G.E.S. Inc. — Woodland Hills California | October 2014 - April 2019

Lead a team of 6 to provide 24 hour services to clients of diverse socio-economic backgrounds and varying mental and physical health diagnosis or capabilities.

Prior to planned departure and after the unexpected loss of the Program Director, filled the role of Interim Program Director for a period of about 2 months to ensure site operations were not disrupted until a new director could be hired and trained.

Conducted staff training for all new hires on site in addition to periodically designing and conducting ad hoc monthly staff training days.

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SKILLS

Languages: Python, C, Kotlin, HTML, SQL

Systems: Windows, Linux, Unix

Databases: Microsoft SQLServer, MySQL, Firebase

Machine Learning:
Tensorflow, Scikit-learn

Version Control: Git, Github

Mobile Application Development: Android studio

Communication and Coordination: Slack, Microsoft Teams

Database Management

Crisis Management

Motivational Interviewing

EDUCATION

Holberton School - Tulsa Oklahoma | Certificate in Software Engineering

2020 - April 2022

UCLA Extension, Woodland Hills California | Certificate in Database Management

2017 - 2018

UC Santa Cruz, Santa Cruz California | Bachelor of Arts in Psychology

2011 - 2013