

Ben Muthalaly

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github.com/benmuth

RELEVANT EXPERIENCE

ProductScope May–Dec 2023

Core Backend Developer Python, AWS, Midjourney

- Implemented real-time generative AI pipelines in Python for product photo generation and processing, deploying inference systems on AWS

ArchiveBox Oct 2023–Apr 2025

Open-source Maintainer Python, Django, HTML, JavaScript

- Redesigned and implemented browser extension for cross-browser compatibility
- Updated configuration and notification system in Django backend

PROJECTS

PairPad github.com/benmuth/pairpad

Collaborative text editor Go, WebSockets, CRDTs

- Designed and implemented a client-server networking architecture using WebSockets

papers-dl github.com/benmuth/papers-dl

Scientific paper collection Python

- Enabled fast, concurrent collection of scientific papers from multiple sources using asynchronous Python
- Gave a talk on the tool and ArchiveBox's extractor architecture at DWeb Camp 2024

AutoClad github.com/benmuth/sts-ai

Slay the Spire bot C++, Python, PyTorch

- Designed and implemented a full pipeline for data generation and ML training of a bot to play the video game Slay the Spire using supervised learning techniques

EDUCATION

Recurse Center Aug–Nov 2022, Jun–Sep 2025

Participant

University of Houston – Honors College Aug 2016–Dec 2018

BS Mechanical Engineering (unfinished) National Merit Scholar