Benchy Dutreuil

✉ bdutreuil.gctc@gmail.com   **in** benchydutreuil   ⌗ UnbenchTheBench

Education

College of Saint Benedict and Saint John's University (CSBSJU)　　　　Collegeville, MN
　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　May 2027
- **Major:** Computer Science　　**Minor:** Economics & Math
- **Coursework:** Data Structure, Software Development, Graph Theory, Data Communication & Networks, Macroeconomic Theory, Microeconomic Theory, Economics of Innovation/Entrepreneurship, Introduction to Data Analysis

Technical Skills

Languages: Python, Java, JavaScript, HTML/CSS,
FrameWorks & Libraries: React.js, Node.js, TensorFlow, OpenCV, MediaPipe, Flask, Pusher, Pandas, Matlibplot
Tools & Platforms: Git, Linux, Roboflow, Excel, PowerPoint, Word, REST APIs, Fusion360
Areas: Computer Vision, Software Engineering, Data Science, Machine Learning, Agile Development, NLP

Experience

University of Illinois Urbana-Champaign Center for Digital Agriculture, Research Intern　　Urbana-Champaign, IL
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- Developed a weed and horseradish segmentation model for commercial fields, achieving 90.5% accuracy
- Built a chat interface integrating a Large Language Model (LLM) with a plant nutrient deficiency computer vision model, enhancing AI-driven insights by 20%

Stanford Code in Place, Section Leader　　　　　　　　　　　　　　　　　　　　　Remote
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- Led virtual coding sessions for students worldwide, teaching fundamental Python concepts, achieved a 60% course completion rate
- Designed interactive exercises that maintained 80% average participation across diverse learner groups

CSBSJU Computer Science Department, Research Assistant　　　　　　　　　　Collegeville, MN
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- Designed software that analyzes user movements with 95% tracking accuracy, enabling a telepresence robot to replicate gestures in real time.
- Presented research on classroom telepresence robotics to 200+ educators and researchers at ISTELive 2025

CSBSJU Economics & Data Science Department, Research Assistant　　　　　Collegeville, MN
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- Engineered a model that predicted alumni donations from graduation year, major, and economic factors with 70% accuracy, informing targeted outreach strategies
- Leveraged Excel to analyze 10 million+ alumni records and create visual dashboards that identified key donation trends over time

Projects

Stearn Bank Hackathon | Team Project　　　　　　　　　　　　　　　　　/Dylan-Perrill
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- Collaborated with a 4-person team to develop a fintech solution addressing the needs of underbanked and unbanked communities, earning 1st place at the Stearns Bank Hackathon
- Implemented a fintech solution leveraging REST APIs, Google Translate API, and Chatbase to increase accessibility by 80%

Emotion Detection App | Solo Project　　　　　　　　　　　　　　　　　/UnbenchTheBench
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- Engineered a dual-input user interface supporting photo uploads and real-time captures, achieving sub-2-second response times for emotion detection
- Implemented preprocessing techniques (normalization, resizing) that improved detection accuracy and consistency by 20% across varying image qualities and lighting conditions

Extracurricular

HackMIT	All Star Code	VP of CS Club
MIT FutureMakers Create-a-thon	CS Volunteering	Founders Scholarship Fund Recipient