

# ELI BENDAVID

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## Education

### Florida State University

Graduated: Spring 2024

*Bachelor of Arts in Computer Science, Bachelor of Science in Economics*

*Tallahassee, FL*

## Experience

### ProsperCI

Summer 2023 - Summer 2024

*Software Engineer Intern*

*Boston, MA*

- Developed and maintained the Python backend using Flask to power a real-time mobile application, serving dynamic data updates to the iOS client and implementing robust architecture with JWT authentication for future deployment scalability.
- Architected and built RESTful API endpoints to manage user data and application state, facilitating secure data storage and retrieval with comprehensive error handling, data validation protocols, and automated testing frameworks.
- Collaborated with senior developers to implement database architecture and optimize query performance using MongoDB, ensuring efficient data retrieval and maintaining code quality through peer code reviews and testing protocols.

### Northwestern Mutual

Summer 2024 - Present

*Insurance Analyst*

*Aventura, FL*

- Analyzed complex client financial data and communicated technical concepts to non-technical stakeholders, developing analytical and problem-solving skills applicable to software development roles.

## Projects

### FAT32 File System Implementation | C, Systems Programming, File I/O

Fall 2024

- Implemented a complete FAT32 file system interface in C, supporting directory navigation, file operations, and cluster management with proper handling of Boot Parameter Block (BPB) structures and File Allocation Table parsing.
- Developed a command-line shell with 8+ commands including ls, cd, open, close, read, and lseek, enabling full file system interaction with support for multiple concurrent file operations and proper memory management.
- Engineered robust file handling with cluster chain traversal, offset management, and binary data processing, demonstrating deep understanding of low-level file system architecture and operating system concepts.

### ECommerce App | MongoDB, Express, React, Node.js (MERN), JWT, PayPal API

Spring 2024

- Built a complete, responsive e-commerce web application from the ground up using full-stack development practices, featuring product browsing, a persistent shopping cart, and user-specific profiles.
- Implemented secure user authentication and authorization using JSON Web Tokens to protect user data and routes.
- Integrated the PayPal API to facilitate secure and reliable transaction processing, managing the entire order lifecycle from cart to confirmation.

### YouTube Summarizer | Python, FLAN-T5, Whisper, Streamlit, yt-dlp

Fall 2025

- Developed a full-stack machine learning application that ingests a YouTube URL, transcribes the audio using Whisper, and generates a concise summary with Google's FLAN-T5 model.
- Designed an intuitive web interface with Streamlit featuring progress indicators, transcript preview, and enhanced error handling for improved user experience.
- Implemented text chunking algorithms to handle long-form content and optimized the summarization pipeline, enabling the processing of a 10-minute video in under 60 seconds.

### Financial Insight Extractor | Python, Flask, MongoDB, Regex

Spring 2024

- Engineered a data-processing application to parse and analyze financial reports, using regex to extract key figures and empower strategic earnings planning.
- Built a Flask-based web interface for users to submit documents and view extracted financial insights and data visualizations.
- Collaborated with project partners to develop the core parsing engine, taking ownership of the regex module to significantly improve data extraction accuracy and reliability.

## Technical Skills

**Languages:** Python, Swift, JavaScript, Java, C/C++, SQL, HTML/CSS

**Technologies:** React, SwiftUI, UIKit, Node.js, Express, Flask, REST APIs, MongoDB, SQLite, Git, GitHub, Postman, Xcode Instruments, LLDB, Linux, Amazon AWS