ELI BENDAVID

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Education

Florida State University   **Graduated: Spring 2024**
Bachelor Degree in Computer Science, Bachelor Degree in Economics   *Tallahassee, FL*

Experience

Freelance Software Developer   **Summer 2024 - Present**
Self-Employed   *Remote*

- Developed full-stack web applications using modern JavaScript frameworks (Next.js, React, TypeScript) with REST API and tRPC architecture, integrating AI services (Gemini) and real-time data APIs for dynamic user experiences.
- Implemented secure authentication systems (JWT), database solutions (MongoDB, SQLite), and payment processing integrations (PayPal), ensuring scalable architecture with comprehensive error handling and input validation.
- Built responsive user interfaces with Tailwind CSS and deployed production applications utilizing Git version control, demonstrating proficiency across frontend, backend, and database technologies.

ProsperCI   **Summer 2023 - Summer 2024**
Software Engineer Intern   *Boston, MA*

- Developed and maintained Python/Flask backend implementing JWT authentication and RESTful API architecture for real-time iOS mobile application, ensuring robust error handling and scalability for production deployment.
- Architected and built 10+ RESTful API endpoints for user authentication, profile management, and data synchronization, implementing comprehensive error handling and input validation.
- Optimized MongoDB query performance through strategic indexing and schema design, improving API response times while collaborating with senior developers through code reviews and pair programming.

Technical Projects

Portfolio Analytics System: Built event-driven analytics platform using microservices architecture with Go, Kafka (Redpanda), and PostgreSQL. Implemented producer service (HTTP API) and consumer service (background worker) communicating via Kafka message queue for reliable event streaming. Deployed on Railway with independent service scaling, SASL/TLS authentication, and environment-based configuration. Processes real-time analytics events with ¡50ms API latency and guaranteed message delivery through persistent message queues.

Task Manager REST API: Built production-ready Spring Boot application with comprehensive 20+ unit and integration tests using JUnit and Mockito. Implemented full CRUD operations with PostgreSQL database using JPA/Hibernate for data persistence. Configured automated CI/CD pipeline with GitHub Actions for continuous testing and deployment. Containerized application using Docker with multi-stage builds for optimized production deployment. Developed clean MVC architecture with proper separation of concerns across controller, service, and repository layers.

Stock Analysis Chatbot: Built full-stack AI chatbot using T3 stack (Next.js, TypeScript, tRPC, Prisma) that analyzes stock tickers and provides market predictions. Integrated Gemini AI for technical analysis and Polygon API for real-time market data. Implemented interactive chart visualizations and bullish/bearish predictions based on technical indicators, delivering comprehensive market insights through conversational interface.

Financial Insight Extractor: Developed Python application to parse financial reports and extract 20+ key metrics using regex pattern matching. Built Flask web interface enabling document upload and real-time visualization of extracted financial data. Improved data extraction accuracy by 35% through collaborative development and rigorous testing.

ECommerce Platform: Built full-stack e-commerce platform with product catalog, shopping cart, and user authentication using MERN stack. Implemented JWT-based authentication and authorization to secure user data and protect API routes. Integrated PayPal payment processing to handle complete order lifecycle from checkout to confirmation.

FAT32 File System Implementation: Implemented complete FAT32 file system interface in C with directory navigation, file operations, and cluster management. Developed command-line shell supporting 8+ commands (ls, cd, open, close, read, lseek) with concurrent file operations. Engineered cluster chain traversal and binary data processing for robust low-level file system interactions.

Technical Skills

Languages: Python, TypeScript, JavaScript, SQL, Java, Go, C/C++, Swift, HTML/CSS
Backend & Data: Flask, Node.js, Express, MongoDB, SQLite, PostgreSQL, Spring Boot, REST APIs, tRPC, Kafka, Event-Driven Architecture, Microservices, Prisma, Hibernate/JPA
Frontend: React, React Native, Next.js, Expo Router, Streamlit, Tailwind CSS
Tools & Platforms: Git, AWS, Railway, Docker, GitHub Actions, Linux, Postman, pytest, JUnit, Mockito, Maven