Jacob T. Cabrera

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Highly skilled professional with strong foundation in computer science, software development, and full-stack engineering. Adept at building and deploying scalable web applications, developing AI-powered trading bots, and performing data-driven analysis using Python, JavaScript, SQL, and modern frameworks such as React, Node.js, and TensorFlow. Proven ability to apply object -oriented programming principles and software development life cycle (SDLC) methodologies to real-world challenges. Expertise in cloud environments (AWS, Azure), version control (Git, SVN), and ERP systems integration. Committed to delivering robust, user -friendly software solutions while continuously expanding technical expertise and contributing to collaborative development environments .

Knowledgeable In

- Full-Stack Web Development
- Python –Java– C++ Programming
- AI & Sentiment Analysis Integration
- Cloud Platforms
- Agile Methodologies
- Database Management
- ERP System Support
- Data Visualization & Dashboards
- Software Development Life Cycle (SDLC)

Technical Skills

Programming Languages:	Python, C++, C#, SQL, JavaScript, Typescript, Clisp, HTML, CSS, Bash
Frameworks:	TensorFlow, PyTorch, Node.js, SupaBase, Next.js, .NET MAUI
Libraries & Tools:	NumPy, Pandas, Scikit-learn, OpenCV, NLTK, Git, Docker, Microsoft Azure, AWS, Visual Studio React
Version Control:	SVN, Mercurial, Git Hub
Databases:	MySQL, PostgreSQL, MongoDB
Agile:	Scrum, Kanban
MS Office programs:	Word, Excel, PowerPoint

Education

Bachelor of Science in Computer Science, University, Tallahassee, Florida-May 2025

Gain hands-on experience using programming languages such as Python, Java, and C++. Engage in rigorous coursework in software development, algorithms, data structures, computer systems, and database management. Collaborate on coding projects, labs, and technical assignments, applying theoretical concepts to practical problems. Participate in team-based capstone projects simulating real-world software engineering challenges. Attend seminars and workshops on emerging technologies including AI, cloud computing, and cybersecurity. Conduct research for academic papers and presentations, demonstrating strong analytical and problem-solving skills.

Key Achievements/Contributions:

Earned Dean's List recognition for fall 2021, 2022, and 2023, reflecting high academic standing and performance.

Career Experience

Florida State University, Tallahassee, Florida   **Jan 2025 – Present**
Information Technology Services Intern

Deliver technical support within enterprise IT environment, assisting faculty, staff, and students in resolving hardware, software, and system-related issues. Participate in the maintenance of PeopleSoft ERP modules by assisting with development, integration, and configuration tasks. Support IT project initiatives by gathering requirements, testing new features, and ensuring adherence to compliance and data integrity standards. Engage in quality assurance processes through validation checks and performance evaluations.

Key Achievements/Contributions:

- Improved system performance by developing Python and SQL scripts supporting automation of PeopleSoft ERP workflows.

- Configured and maintained PeopleSoft modules for seamless integration across HR, Finance, Supply Chain, and Campus Solutions.

Key Projects

Financial Dashboard with AI-Powered Trading Bot | Full-Stack Application
Technologies: React.js, Next.js, Node.js, TypeScript, HTML/CSS, Python, AI, Sentiment Analysis

- Developed full-stack platform integrating stock data visualization, automated trading insights, and sentiment analysis.
- Enhanced user experience through responsive front-end built with React.js and Next.js,
- Integrated Node.js backend with financial APIs to manage live stock data, news feeds, and trade executions.
- Designed AI-powered bot using Python and sentiment analysis to generate real-time trade recommendations.
- Built tools for AI-generated strategies, risk management, and customizable dashboards with data visualizations.
- Optimized real-time updates and implementing scalable architecture for seamless UI performance.
- Strengthened project delivery through collaborative development of front-end and back-end components.

Commerce Platform | .NET MAUI Cross-Platform Application with API Integration
Technologies: .NET MAUI, C#, XAML, ASP.NET Core Web API, REST APIs, SQLite (planned)

- Developed a cross-platform mobile and desktop eCommerce application using .NET MAUI with responsive UI designed in XAML.
- Built a RESTful ASP.NET Core Web API to manage product inventory, orders, and user interactions, connected to the app via HTTP endpoints.
- Created a modular shared library to manage business logic, models, and services across both client and server sides.
- Implemented a lightweight file-based database system for development, with architecture prepared for future SQLite or cloud migration.
- Followed MVVM design pattern and clean coding practices to ensure maintainability, scalability, and smooth cross-platform performance.

AI-Powered Trading Bot with Sentiment Analysis

- Achieved real-time sentiment-driven trade execution by developing AI-powered bot using Python, PyTorch, and FinBERT model.
- Integrated Alpaca API for seamless trade automation and dynamic cash/bracket order strategies.
- Validated performance of trading models by conducting historical backtesting with GPU acceleration for efficient sentiment analysis.
- Delivered production-ready solution by following SDLC phases from requirement gathering to deployment.
- Enhanced code maintainability and modularity by applying object-oriented programming principles for scalable feature integration

Financial News Summarization and Sentiment Analysis

- Automated market intelligence gathering by developing Python-based aggregator using BeautifulSoup for scraping financial news across multiple sources.
- Reduced processing time by implementing parallel computing for scraping and summarization workflows.
- Enabled structured data analysis by formatting processed news summaries and sentiment outputs into CSV for seamless reporting.
- Improved performance in large-scale data analysis by designing efficient data structures and algorithms tailored for financial datasets.