

ALBERT CHEN

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Software Engineer

Forward-thinking IT professional with a strong background in data-driven decision-making, algorithm development, and innovative problem-solving to thrive as a Software Engineer. Skilled in applying advanced principles, concepts, and methodologies to enhance knowledge and drive meaningful insights across diverse industries. Recognized as a trusted, logistical, troubleshooting resource with a history of making critical decisions regarding migration, configuration, deployment, and resolutions. Skilled in writing high-quality, efficient, and testable code, building highly available, secure, distributed systems in a microservices architecture. Collaborates with top engineers to tackle complex challenges as part of an agile team ensuring continuous deployment and system reliability. Experienced in the strategic detail planning, execution, and leadership of enterprise-wide technology initiatives, which support business goals.

AREAS OF EXPERTISE

Software Engineering ♦ Business Development ♦ Relationship Management ♦ Productivity & Efficiency ♦ Data Mining
Front-End Development ♦ Strategic Planning ♦ Escalation Management ♦ Complex Problem Solving

Technical Snapshot: Python, Java, JavaScript / TypeScript, Flask, Docker, Spring Boot, Node.js, React, MongoDB, AWS Lambda

CAREER HIGHLIGHTS

Software Developer | V2 Logistics Corp. - Bethpage, NY

2024 - 2025

Delivered technical expertise in a dual-role capacity, bridging Frontend Engineering and Machine Learning to develop and optimize data-driven software applications. Led the conceptualization, design, and implementation of end-to-end solutions powered by machine learning, ensuring seamless integration with front-end interfaces. Played a key role in building and refining price prediction models, optimizing forecasting processes, and translating complex statistical insights into actionable business decisions. Additionally, designed sleek and efficient user interfaces, significantly enhancing client experience and accessibility of forecasting tools.

Key Initiatives:

- Engineered features for the time series forecasting model by implementing coarse and fine-grained clustering with spatial and density-based algorithms, improving model accuracy by 0.003 while leveraging a high-dimensional dataset.
- Led late-night brainstorming sessions, refining data preprocessing techniques, applying advanced regression methods, and optimizing hyperparameters, resulting in marked improvements in forecasting accuracy.
- Evanglized the adoption of neural networks within an innovative stacking model, leading to CUDA integration in ML systems, reducing large dataset training times from hours to minutes.
- Optimized and refined machine learning pipelines, leveraging Python's class-based syntax and inheritance patterns to improve code efficiency and maintainability.
- Developed high-fidelity prototypes in HTML and CSS for client-facing web applications before migrating to React, Next.js and Tailwind for full-scale development.
- Designed and implemented a multi-step quote form, dynamically controlling the user experience with JavaScript, based on user storyboards and workflow requirements.

Senior Technician - CPhT | Walgreens Pharmacy - Sunnyside, NY

2021 - 2024

Provided technical consultative services and trained pharmacy interns and technicians, offering a comprehensive system overview and simplifying insurance processing through a step-by-step algorithmic approach for easy replication in case of system exceptions.

Key Initiatives:

- Instituted an analytics-driven inventory management system to accurately track low-stock medications each morning using a 'smart count' feature, ensuring timely replenishment, and minimizing instances of out-of-stock scenarios.
- Successfully managed the 'bin reconciliation' protocol, meticulously comparing physical medication counts in ready status with system records to identify and rectify discrepancies, resulting in a reduction of errors and misplaced inventory by over 1%.

Frontend Engineer (React) | Homesite - Boston, MA

2020

Engineered and implemented React hooks for streamlined container logic management, while ensuring alignment with user experience requirements and collaborating cross-functionally with management for optimal software solutions.

Key Initiatives:

- Employed minimalistic styles and design specifications to ensure a seamless user interface.
- Applied React's flux-like architecture to implement changes based on feedback obtained from A/B testing, ensuring clean design patterns were adhered to.

OPEN-SOURCE PROJECTS

StockPulse: Investment Tracker

December 2023 - January 2024

- Streamlined real-time financial data retrieval through the adaptation of API calls to Alpha Vantage API for market closings.
- Implemented logic to ensure the accuracy and relevancy of stock information by incorporating data from the last 10 trading days.

EDUCATION

Master of Science, Computer Science, New York Institute of Technology, New York, NY

Bachelor of Arts, Economics, New York University, New York, NY