

Michael Kahen

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Skills

Programming: Python, SQL, C, C++, JavaScript, MATLAB, VHDL, AVR and MIPS Assembly
Libraries: PyTorch, TensorFlow, Scikit-learn, Pandas, NumPy, Selenium, OpenBB, React.js, Flask, OpenCV, Reflex
Developer Tools: CUDA, SQLite, PostgreSQL, MongoDB, Supabase, Git, Docker, Postman, AWS, LTspice, CircuitLab
Languages: English (Native), Persian/Farsi (Fluent)

Work Experience

Technology & Operations Manager

Mineola, New York

Lady Couture of NY

May 2023 – Present

- Architected and delivered an end-to-end Python/Streamlit warehouse system that reconciles Pavo order exports, internal OMS catalog data, and carrier tracking files to generate duplex-ready pick sheets with page-level QR codes and barcode-based exception handling.
- Designed modular, testable services for fail-fast validation, row-level matching of UPCs, quantities, and tracking numbers, PDF/XLSX generation, and Supabase-backed scan state that guides item and shipping-label verification in order to replace manual cross-checks and surfacing missing fulfillment data before shipment. Eliminated shipment errors through automated validation while saving 1–2 hours of work each day.
- Built Python automations that extract, match, and transform inventory data for GoFlow, Rithum, and Faire, generating platform-ready upload files and reducing manual work across the multi-channel inventory workflow.
- Manage inventory control and invoicing in Office Master System (OMS), using its advanced workflows to improve operational accuracy and efficiency.

Software Engineering Intern

New York City, New York

UptickNYC

May 2024 – May 2025

- Collaborated with engineers to develop and maintain software products for multiple clients.
- Managed the development of a large-scale CRM website using Reflex in Python, integrating wrapped React.js components. Planned and executed the design and implementation of the Analytics and Taskboard pages while conducting thorough research on User Authentication platforms. Contributed to the creation of both frontend and backend components, including data retrieval from MongoDB and integration with various APIs.
- Selected to enhance and troubleshoot products for previous clients by adding new features and resolving bugs. Leveraged React.js and CSS to optimize the UI/UX, while separately improving large-scale data retrieval processes for greater efficiency.

Information Technology Intern

New York City, New York

Medical & Dental IT Solutions

May 2024 – August 2024

- Contributed alongside a Senior Information Technology professional to install software and wiring for numerous doctoral clients. Installed network racks and 70-volt speaker systems with multiple volume controllers using daisy chaining. Terminated Cat6 cables and wired the patch panel for the client's LAN connections. Toned all the connections for organization.
- Configured new servers and added users to the local domain, streamlining the network infrastructure and enhancing user management capabilities. Additionally, executed data migration tasks by utilizing robocopy to efficiently transfer data to new machines, ensuring seamless transitions and minimal disruption to operations.

Education

Stony Brook University

Stony Brook, New York

B.E. in Computer Engineering

May 2025

- GPA: 3.4
- Relevant Coursework: Senior Design, Advanced Programming and Data Structures, Real-Time Operating Systems, Software Techniques for Engineers, Algorithmic Electronic Design, Embedded Microcontroller Systems Design I and II, Digital Design Using VHDL and PLDs, Electronics, Computer Architecture, Deterministic Signals and Systems, Computer Communications, Computer Vision, Network Security Engineering, Electric Power Systems, EM Waves & Transmission Lines, Engineering Ethics.

Projects

RISC-V Pipeline Lab

[Live Demo](#)

JavaScript, RV32I, Computer Architecture

- Built an interactive five-stage RV32I pipeline simulator with a two-pass assembler, forwarding, stalls, flushes, branch prediction, cache timing, and CPI telemetry.
- Verified execution with deterministic tests against an independent sequential reference model.