

Sean Li

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Education

University of Michigan | Stephen M. Ross School of Business
Bachelor of Science in Computer Science; Minor in Business Administration

Graduation Date: May 2025
Cumulative GPA: 3.6

Relevant Experience

Big Data Engineering Intern <i>Lotus Technology Inc</i>	May 2024 - Aug 2024 <i>Hangzhou, Zhejiang, China</i>
<ul style="list-style-type: none">Developed and optimized distributed data pipelines using Spark to preprocess and analyze large-scale autonomous driving datasets, reducing processing time and improving query and search efficiency by 28%Devised comprehensive system observability using Prometheus for metrics collection and Grafana for real-time dashboards, enabling proactive performance optimization and reducing system downtime by 15%Designed real-time data workflows with Flink to process sensor streams from LiDARs and cameras creating SQL scripts parsing ROS messages into CSV files using SD-map classifications for autonomous driving developmentDeployed a SQL script integrating two distinct data sources into a unified table, sorted by tags, utilizing Hadoop to consolidate cloud data to OSS, resulting in faster lookups enabling seamless cloud uploads to OSS	

Research Engineer - Computational Biology Visualization <i>University of Michigan C. elegans Project</i>	Dec 2022 - Dec 2023 <i>Ann Arbor, MI</i>
<ul style="list-style-type: none">Engineered a C++ program to process signaling from circuit board to read, decode, and process RFID data, enabling audio and visual representations of C. elegans movement patterns for interactive museum exhibitsOptimized C++ codebase focused on Arduino-based circuit interactions by implementing enhancements through SPI and MFRC522, facilitating RFID signal activation to dynamically illuminate specific components in modelConducted interdisciplinary research combining computer science and biology to develop and validate a computational pipeline that translates C. elegans neural activity patterns into novel interactive multimedia visualizations for scientific education	

Projects

AI-Enhanced Nutrition App <i>React Native, SQLite, Expo, Javascript, AI Integration</i>	March 2025 - Present
<ul style="list-style-type: none">Co-developed Nutrili, an AI-powered mobile app, with a Harvard assistant professor featuring intelligent nutrition label scanning, real-time goal tracking, and personalized data visualizations to make nutritional science accessiblePresented users with a goal-driven nutrition interface that adapts macronutrient metrics based on users' health objectives, allowing precise tracking and progress measurementPioneered a cross-platform mobile app using React Native and Expo Router, integrating asynchronous JavaScript and SQLite to support real-time data processing and personalized insights at scaleIntegrated Anthropic's LLM to let users photograph nutrition labels and automatically extract structured nutritional data into a personal in-app database, reducing manual input through AI-driven parsing and classificationArchitected and developed user-facing AI-powered visualizations, including dynamic charts and adaptive interfaces, to translate raw nutritional data into actionable insights, improving user understanding and engagement	

Pocome <i>C#, Networks, Threading, Server, Unity Game Engine</i>	December 2024 - Present
<ul style="list-style-type: none">Implemented and designed cross-platform multiplayer mobile game with Unity and C#, enabling long-distance couples and friends to stay connected by collaboratively building and customizing a virtual home in real timeRefactored gameplay mechanics, achieving 40% reduction in memory usage and improving gameplay smoothnessCollaborated with artists to create a dynamic, network-synced weather system, enhancing immersion and player engagement through real-time environmental changes	

Technical Skills

Languages: C, C++, C#, Python, Java, JavaScript, Swift, MATLAB, SQL

Frameworks: PyTorch, React.js, Node.js, Bootstrap, Flask, Docker

Tools: Prometheus, Grafana, Kubernetes

Libraries: TensorFlow, scikit-learn, pandas, NumPy, Matplotlib, seaborn, request_toolbelt

Coursework: Machine Learning, Data Structures and Algorithms, Web Systems & Information Systems, User Interface Development, Computer Organization, Foundations of Computer Science, Applied Linear Algebra