

Eric Joseph

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EDUCATION

Georgia Institute of Technology

Bachelor of Science in Computer Science

Atlanta, GA

Expected Graduation, May 2027

- **Related Coursework:** Computing in Python, Data Structures, Algorithm Design & Analysis, Database Design & SQL, Objects & Design Principles, Object-Oriented Programming, Systems & Networks, Machine Learning

EXPERIENCE

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Software Engineer Intern

Atlanta, GA

June 2025 – Present

- Accelerated backend performance by 25% under concurrent AI workloads through refining Convex data models for efficient queries and integrating WebSockets to reduce latency and improve scalability.
- Boosted end-to-end app build success rates using natural language prompts from 50 to 75% by enhancing LangGraph multi-agent workflows and integrating vector databases to fine-tune autonomous pipeline performance.
- Created 15+ integration and regression tests with monitoring dashboards for Convex query models and LangGraph components, cutting manual debugging and improving feature reliability and deployment.

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Software Engineer Intern

Atlanta, GA

Jan 2023 – May 2023

- Processed 10k+ records in Google Cloud Firestore with Python across data validation, transformation, and report generation workflows, reducing repetitive data entry by 40% and improving operational scalability.
- Designed and optimized Firestore queries for app usage and access pattern reports, improving query efficiency by 30% and enabling product and engineering teams to make faster, data-driven decisions.
- Saved 8 hours per week of manual error resolution and system checks by streamlining monitoring and alerting with Google Cloud Functions, tracking platform failures and performance issues to improve application stability.

PROJECTS

Savor | Next.js, React, TypeScript, Firebase, DynamoDB

April 2025 – Present

- Devised 10+ customizable diet filters for a full-stack meal planning platform, enabling goal-driven meal plans aligned with user preferences and supporting early feature adoption.
- Implemented a responsive React/Next.js frontend with Firebase Authentication and DynamoDB NoSQL data modeling, creating flexible components and efficient queries to deliver personalized meal plans at scale.
- Analyzed 20+ competitor diet and meal-planning apps, uncovering feature gaps, evaluating user flows, and extracting actionable insights to guide development of high-impact, user-centered platform features.

Spoiler Alert | React, Python, Flask, PyTorch, MySQL

September 2024 – January 2025

- Built a full-stack web app integrating user fridge inventory with AI-powered spoilage prediction and recipe recommendations, demonstrating up to a 20% reduction in food waste during pilot tests.
- Supported 100+ users and ensured robust data flow by engineering RESTful APIs and MySQL schemas for user authentication, fridge management, and recipe recommendations, achieving 85% real-time prediction accuracy.
- Designed a responsive React frontend with dynamic state management, integrating PyTorch ML models for spoilage predictions and ranked recipe recommendations to enhance usability and engagement.

Obesity Risk Prediction Model | Python, Scikit-learn, Pandas, Matplotlib

September 2023 – January 2024

- Achieved 85% accuracy and 0.82 F1-score by engineering a supervised ML pipeline on dietary, activity, and demographic datasets, improving predictive performance by 15% over baseline models.
- Implemented a preprocessing framework in Pandas/NumPy with imputation, categorical encoding, and feature scaling, enabling scalable model training and consistent results across 10k+ samples.
- Optimized logistic regression through Exploratory Data Analysis (EDA) and visualization with Matplotlib/Seaborn, uncovering 3+ key lifestyle risk factors and boosting predictive stability by 20% on validation sets.

TECHNICAL SKILLS

Languages: Python, TypeScript, C, C++, Java, JavaScript, MySQL, Bash/Shell, Go/Golang

Frameworks & Libraries: React, Next.js, Flask, Pandas, NumPy, Scikit-learn, PyTorch, LangGraph, Vector DBs

Databases & Cloud: Relational & NoSQL (PostgreSQL, MongoDB, DynamoDB, Firestore), AWS, GCP, Serverless

DevOps & Tools: Docker, Git, CI/CD (GitHub Actions), Kubernetes, Linux, REST APIs, WebSockets, Agile, Scrum