

# Eric Joseph

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## EDUCATION

### Georgia Institute of Technology

Atlanta, GA

*Bachelor of Science in Computer Science*

*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

### Narb

Atlanta, GA

*Software Engineer Intern*

*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.

### Oeware

Atlanta, GA

*Software Engineer Intern*

*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