# JISHNU JANARDANAN

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## EDUCATION

**B.S. in Computer Engineering** | Illinois Institute of Technology | Chicago, IL | Graduated: Dec 2025

*Coursework***:** Data Structures & Algorithms, Machine Learning, Object-Oriented Programming, Computer Organization, Probability & Statistics, Operating Systems, Systems Programming

## EXPERIENCE

**Backend Developer Intern (Remote) |** FoodCLUB | United Kingdom (Remote) | Jan 2024 – May 2024

- Developed Node.js backend services on AWS EC2 maintaining 99% uptime for user authentication and data retrieval APIs
- Optimized REST API performance by implementing Redis caching, reducing response latency by 30% across core user-facing endpoints
- Debugged and resolved backend issues through systematic code reviews, improving overall API stability and reducing production incidents
- Wrote technical documentation for REST API endpoints, standardizing request/response formats and error handling for frontend integration

## PROJECTS

**SneakersForLess - Sneaker Price Comparison Website |** React, AWS Lambda, DynamoDB, Firebase | sneakersforless.org

- Built the React frontend with Firebase Authentication for OAuth login, deployed on S3 and CloudFront with 99.9% availability
- Set up a serverless backend with Lambda, API Gateway, and DynamoDB that auto-scales and responds in under 100ms
- Implemented CI/CD pipeline using GitHub Actions, reducing deployment time by 80% with automated testing and builds

**Old Is Gold - Senior Fitness Platform** | React, AWS Lambda, DynamoDB, CloudFront | oldisgold.fit

- Built a full-stack fitness app for seniors with personalized workouts, nutrition tracking (50+ foods), and progress analytics
- Engineered a serverless backend using Lambda + API Gateway with auto-scaling architecture and consistent sub-200ms response times
- Deployed globally via CloudFront CDN across 200+ edge locations for high availability and low-latency access
- Configured CI/CD with GitHub Actions, cutting deployment time from 15 minutes to 30 seconds with zero-downtime releases

**Neural Network Inference Engine | C++, MNIST**

- Refactored 300 lines of C++ using OpenMP parallelization to eliminate performance bottlenecks in the inference engine's core computational layers
- Switched to NCHW/NHWC tensor layouts, which improved cache hit rate by 8% and saved 7ms off each inference
- Executed MLP and CNN models end-to-end with pre-trained weights, achieving 97.5% classification accuracy on MNIST

## INVOLVEMENT

**IIT Motorsports (FSAE)** | Jan 2024 – May 2024

- Researched hardware architecture for a quad inverter system powering a Formula SAE electric race car
- Conducted technical analysis for power switch selection using decision matrices and documented findings in team design report

## SKILLS

- C, C++, Java, Python, JavaScript, SQL, HTML/CSS, Node.js, React, Git, Docker, REST APIs, OpenMP, Linux/Ubuntu, Distributed Systems
- System Design, Microservices, AWS, Backend Development, CI/CD, Agile, PostgreSQL, Redis, Firebase, DynamoDB, Multi-threaded Programming