JISHNU JANARDANAN

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EDUCATION

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

*Coursework***:** Data Structures & Algorithms, Machine Learning, OOP, Computer Organization, Probability & Statistics

EXPERIENCE

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

- Built Node.js backend services running on AWS EC2 that handle 100+ API requests daily with 99% uptime.
- Developed 5+ REST API endpoints for features like user authentication and data retrieval; reduced response times by 30% through caching
- Participated in architectural reviews, code reviews, and API testing, improving code quality and reliability
- Collaborated in Agile sprints with daily standups, Git version control, and bi-weekly production releases

PROJECTS

SneakersForLess | React, AWS Lambda, DynamoDB, Firebase | sneakersforless.org

- Built the React frontend with Firebase Auth for OAuth, deployed it on S3/CloudFront—sits at 99.9% availability.
- Set up a serverless backend with Lambda, API Gateway, and DynamoDB that auto-scales and responds in under 100ms.
- Added a CI/CD pipeline through GitHub Actions, which cut deployment time by about 80%.

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

- Full-stack fitness app for seniors with personalized workouts, nutrition tracking (50+ foods), and progress analytics
- 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
- Implemented CI/CD with GitHub Actions reducing deployment from 15 minutes to 30 seconds with zero-downtime releases

Think Fast! - Embedded Trivia game | Python, Raspberry Pi, Arduino | Team of 4

- Interactive trivia game with physical button inputs, LED feedback, and real-time scoring system
- Developed game state machine in Python handling menu navigation, question flow, and answer validation
- Integrated Arduino with Raspberry Pi via UART Serial achieving sub-100ms response; implemented software debugging

Neural Network Inference Engine | C++, MNIST

- Rewrote about 300 lines of C++ to fix some serious bottlenecks in the inference engine's core layers.
- Switched to NCHW/NHWC tensor layouts, which improved cache hit rate by 8% and saved 7ms off each inference.
- Got MLP and CNN models running end-to-end with pre-trained weights, hitting all the accuracy targets on MNIST.

INVOLVEMENT

IIT Motorsports (FSAE) | Jan 2024 – May 2024

- Researched and documented hardware architecture for a quad inverter powering a formula SAE electric vehicle
- Contributed to power switch selection through technical analysis and decision matrix evaluation
- Co-authored design constraints and component specifications in the team's technical report

SKILLS

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