

Josh Landsman

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Personal Statement

Creating positive change in the world through computer science

Education

Georgia Institute of Technology

Aug 2020-May 2025

M.S. Candidate in Computer Science (GPA: 4.0) - Machine Learning

B.S. with Highest Honors in Computer Science (GPA: 3.84) - Information Internetwork & Intelligence

Work Experience

Capital One - Software Engineer Intern, Enterprise Tech (McLean, VA)

Jun 2024-Aug 2024

- Implemented an end-to-end data ingestion service utilizing daily jobs orchestrated with SQL to retrieve data from Snowflake sources; updated a serverless API to deliver tailored data to internal clients 10x faster than prior version
- Participated in specialized internal seminars dedicated to enhancing feature analysis in machine learning models, utilizing methods such as SHAP values to deepen comprehension of model compliance within banking regulations
- Deployed technology stacks via Jenkins with AWS Lambda, Batch, EventBridge, RDS, and Splunk

Capital One - Software Engineer Intern, Cyber (McLean, VA)

Jun 2023-Aug 2023

- Led development of Slack bot integration in JavaScript, enabling seamless interaction with internal API; optimized team productivity by simplifying repetitive tasks and providing real-time data access without manual API calls
- Devised a Command-Line Interface (CLI) in Python enabling seamless image uploads via Docker to Artifactory, followed by an automated scanning process to assess and report security and compliance violations to the user
- Engineered middleware Python API to facilitate container scans to isolate secure credentials from a CLI via authenticated LDAP sessions using JWT tokens

NCR Corporation - Software Engineer Intern, Innovation Lab (Atlanta, GA)

May 2022-Aug 2022

- Developed a computer vision monitoring system in Python utilizing SciPy, Sklearn, and OpenCV to analyze current conditions in a populated environment to decrease system downtime; reported issues via Slack API
- Generated KNNs to classify images and histogram data to provide real-time information of monitored zones
- Produced knowledge graphs and used data analysis methods increasing an internal product's accuracy from 70% to 97%; generated full stack NestJS/Next.js website to display results (48-hour collaborative hackathon)

NCR Corporation - Software Engineer Intern, Innovation Lab (Atlanta, GA)

May 2021-Aug 2021

- Created production REST API for NCR's Global Hackathon to organize international participants, teams, and conference talks using NestJS, Azure, and PostgreSQL; co-managed deployment/stability of new NCR website
- Designed Ethereum Blockchain system for NCR employees to earn coins toward future internal reward redemption
- Collaborated in team meetings to shape innovative use cases for AI/Computer Vision in NCR's point-of-sale

Lucille Games - Contracted Game Developer (Virtual)

Apr 2020-May 2024

- Architected game management solutions using NestJS, Redis, MongoDB, and Java to enhance server robustness
- Overhauled legacy systems to support stable game performance for over hundreds of daily active users

Projects

Personal API - GitHub Repository

- NestJS API to automate personal tasks and for use with future personal full stack projects

TeamDinner App - GitHub Repository

- Flutter app with NestJS backend to offer a solution for sports teams to coordinate dining efforts on game days

Skills

Languages/Tools: Java, JavaScript, NestJS, Next.js, TypeScript, Python, PyTorch, AWS, PostgreSQL, Redis, MongoDB, Firebase, Google Cloud, Azure, React/React Native, Dart, Flutter, Git, Lua, Vercel, HTML, CSS

Relevant Coursework: Systems and Networks, Intro to AI, Intro to Database Systems, Applied Combinatorics, Linear Algebra, Discrete Mathematics, Machine Learning, Efficient Machine Learning, Computer Vision

Extracurricular Activities

Alpha Epsilon Pi Fraternity - Treasurer/Executive Board & Philanthropy Chair

Apr 2021-Apr 2022

- Established and managed \$150K annual budget used to organize day-to-day operations
- Organized philanthropic events for foundation helping children with heart defects

HackGT: Catalyst - Mentor

Mar 2021

- Selected to mentor 30 high school students in Cybersecurity track of hackathon

Food Relief Agency - Volunteer

2013-Present

- Packed over 300 food boxes and delivered to homes with low food security in community

Honors & Awards

- National Honor Society, Mu Alpha Theta, National AP Scholar, RHS Computer Club Leadership Award