# 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

- o 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
- o 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
- o 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

- o 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
- o 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
- o 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

- o 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
- o Generated KNNs to classify images and histogram data to provide real-time information of monitored zones
- o 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

- o 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
- o Designed Ethereum Blockchain system for NCR employees to earn coins toward future internal reward redemption
- o 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

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

## Projects

**Personal API -** *GitHub Repository*

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

**TeamDinner App -** *GitHub Repository*

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

## Skills

**Languages:** Java, Python, JavaScript/TypeScript, NestJS, Next.js, React/React Native, Dart, Flutter, C#, Lua, SQL

**Tools:** Redis, MongoDB, Firebase, AWS, Google Cloud, Azure, Vercel, Cloudflare, Git

**Relevant Coursework:** Machine Learning, Efficient ML, ML Security, Deep Reinforcement Learning, Knowledge-Based AI, Computer Vision, Intro to AI, Enterprise Cyber Management, Network Security

## Extracurricular Activities

**Alpha Epsilon Pi Fraternity -** *Treasurer/Executive Board & Philanthropy Chair*     Apr 2021-Apr 2022

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

**HackGT: Catalyst -** *Mentor*                                                         Mar 2021

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

**Food Relief Agency -** *Volunteer*                                                    2013-Present

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

## Honors & Awards

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