

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* (McLean, VA)

June 2024-Aug 2024

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

June 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 internal container scans in order to isolate secure credentials from a CLI via authenticated LDAP sessions using JWT tokens
- Deployed technology stacks via Jenkins with AWS Lambda, CloudWatch, DynamoDB, and S3 Buckets

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
- Created 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 system for NCR employees to contribute toward future goal achievement at NCR through Brightidea with an Ethereum Blockchain-based reward system
- 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)

2020-2024

- 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

XLink LLC - *Software Intern* (Virtual)

Sept 2017-Mar 2020

- Produced image recognition software utilizing SIFT, SURF, and ORB algorithms and homography

Projects

Personal API - *GitHub Repository*

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

PKNK - *GitHub Repository*

- Android app in Java for hackathon to exchange cooking recipes in a social media style using Google Firebase

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: Object-Oriented Programming, Data Structures & Algorithms, Design & Analysis of Algorithms, Computer Organization and Programming, 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