

Josh Landsman

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Personal Statement

Creating positive change in the world through computer science

Education

Georgia Institute of Technology [2020-2024]

- Candidate for B.S. in Computer Science
- Concentrating in Information Internetworks & Intelligence
- Cumulative GPA: 3.81

Work Experience

NCR Corporation - Atlanta, GA (*Software Engineer Intern, Innovation Lab*) [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
- Adapted REST API from previous summer internship into GraphQL API to meet business requirements
- 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 - Atlanta, GA (*Software Engineer Intern, Innovation Lab*) [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 - Virtual (*Software Developer*) [Apr 2020-Aug 2020]

- Collaborated with multiple developers and quality assurance team to develop and improve existing games
- Created streamlined process to evaluate/fix the functionality of new game features

XLink (Startup Entrepreneur: Munroe Chirnomas) - Virtual (*Software Intern*) [Sept 2017-Mar 2020]

- Produced image recognition software utilizing SIFT, SURF, and ORB algorithms and homography
- Created web scraping tool to test reactions from mainstream websites and gather statistics

Harvard University Medical School- Boston, MA (*Research Intern*) [Aug 2019]

- Applied computer science skills with bioinformatics; exposed to biomedical wet lab and state-of-the-art molecular biology techniques, including single cell sorting and RNAseq

Projects

Personal API - GitHub Repository

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

PKNK - GitHub Repository

- Programmed an Android application in Java for the 2020 QuackHacks hackathon, which provided a platform for individuals to exchange cooking recipes in a social media style using a Google Firebase real-time database

Skills

Languages/Tools: Java, JavaScript, NestJS, Next.js, TypeScript, Python, PostgreSQL, 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

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
- Led weekly meetings to help plan events and organize logistics
- 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