Jake Rothstein

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EDUCATION

Georgia Institute of Technology   Atlanta, GA
B.S. Computer Science, GPA: 3.9   *(Expected) May 2027*
- Threads: System Architecture & Cyber Security; Member, GreyHat Cyber Security Club
- Courses: Human Dimension of Cybersecurity, Systems & Networks, Data Structures & Algorithms, Design & Analysis of Algorithms, Computer Organization & Programming, Objects & Design, Discrete Math

EXPERIENCE

The Home Depot   San Francisco, CA (Remote) / Atlanta, GA
Software Engineer Intern   *Summer 2025*
- Partnered with Product, Design, and Engineering teams to re-architect and enhance event software for 100+ annual events used by 5000+ associates.
- Developed web app with Slack integrations using Java Spring Boot and React, deployed on Google Cloud Kubernetes with automated GitHub CI/CD pipelines.

GT Financial Services Innovation Lab   Atlanta, GA
Undergraduate NLP Researcher   *2025 – Present*
- Designed 150+ annotated credit card agreement questions using numerical reasoning techniques (CoT and PoT) for NLP model training and evaluation.
- Built statistical and visual reports comparing industry and cyber risk over time from SEC 10-K filings using tokenization and semantic analysis.
- Part of NLP Vertically Integrated Projects (VIP) program under Dr. Sudheer Chava; publication expected 2026.

Computacenter   Remote
Software Engineer Intern   *2023 – 2024*
- Created a Slack app enabling admins to on/offboard 5K+ employees across systems like ServiceNow, Opsgenie, PRTG, and Slack using FastAPI.
- Developed hardware error monitoring tool interfacing with NocoDB, scaled to 50+ customers.

Neucargo   San Francisco, CA
Co-Founder   *Summer 2022*
- Developed Smartsheet integration to automate tracking of UPS, FedEx, and MACH1 shipment statuses.

The Burlingame B   Burlingame, CA
Managing Editor, Head Photographer   *2021 – 2024*
- Trained 30-person journalism staff in journalistic writing, photography, and digital media.
- Automated daily assignments and deadline reminders, ensuring no gaps in coverage.

PROJECTS

PDF Malware Detector (Millennium Capital) | *Python, SVM, ML*   *Spring 2025*
- Built SVM-based malware detector using 2022 dataset; extracted structural features and scaled data; benchmarked against logistic regression and Random Forest with 88% accuracy. Presented project at Millennium NYC office.

LeadDog AI (Startup) | *Python, Web Scraping, API*   *Summer 2024*
- AI lead generation software identifying employees for targeted sales campaigns; bypassed rate limits of public/private APIs using various techniques.

PlantX (Columbia AI Seminar) | *AI Search, Python*   *Summer 2023*
- Built AI search algorithm to predict plant disease with 80% accuracy.

StudyBot (Personal) | *Python, AWS EC2, Discord API*   *Fall 2020*
- Developed multiplayer Discord trivia game using Quizlet sets, deployed to 100+ discord servers.

TECHNICAL SKILLS

Languages: Python, Java, Go, JavaScript, C/C++, SQL, HTML/CSS, Assembly, Markdown, PostgreSQL, TypeScript
Frameworks: Java Spring Boot, Flask, ReactJS, Django, Material-UI, CSS, Kubernetes, FastAPI
Developer Tools: Git, Docker, VSCode, IntelliJ, Burp Suite, PyCharm, GoLand
Libraries: Pandas, NumPy, PyTorch, TensorFlow, OpenCV, BeautifulSoup
Other Skills: AWS, GCP, Agile, Linux, Adobe (PS, LR, Premiere), Jira, Ghidra, CI/CD pipelines, NLP