

# 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 Researcher*

*2025 – Present*

- Designed 150+ annotated credit card agreement questions using numerical reasoning techniques (CoT and PoT) for 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 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