

Jainam Kashyap

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EDUCATION

Drexel University

Bachelor of Science - Honors Computer Science (Concentrations: AI & ML, DSA)

Expected Graduation: June 2026

Cumulative GPA: 3.83/4.0

WORK EXPERIENCE

Apollo Global Management

Software Engineer - Core Engineering, Investment Engineering

New York City, NY

April 2025 - September 2025

- Unified firm's trade infrastructure by consolidating downstream processes from **3** Order Management Systems through a trade gateway with **Azure EventHub** and Snowflake, **reducing settlement latency by 61%** and **eliminating 92% of data loss**
- Built unified Trade MCP service with FastAPI/gRPC providing **sub-2-second** responses across Apollo's trade lifecycle, eliminating manual processes and fragmented API calls, saving each user **6+ hours daily** in data access
- Engineered enterprise JupyterHub on AKS with Azure Artifacts, GitHub Copilot, and multi-kernel support through Okta authentication, eliminating local configuration overhead and achieving **100+** user adoption across Data and Investment Engineering teams

Bristol Myers Squibb

Cybersecurity Third-Party Risk Management (TPRM) Analyst

Princeton, NJ

April 2024 - September 2024

- Managed IT and cyber risk for **450+ suppliers** across 17 countries using in-house Vendor Risk Module to **assess security hygiene and infrastructure**, prioritizing high-risk vendors and achieving **6% reduction** in third-party risk exposure
- Conducted threat hunting using custom **KQL queries** in **Microsoft Sentinel** to analyze **60,000+ log entries** across **Active Directory** and network systems, identifying insider threats and reducing data leakage risks by **14%**
- Developed custom **machine learning model** using **BERT (uncased)** for NLP-based SOC report control mappings, reducing manual workflow by **47%** and increasing processing efficiency by **20%** while maintaining compliance standards

PUBLICATIONS

✉ **Mitchell, B. S., Mancoridis, S., & Kashyap, J.** *On the Automatic Identification of Misconfiguration Errors in Cloud Native Systems*. Artificial Intelligence and Cloud Computing Conference (**AICCC 2024**), Tokyo, Japan *August 2024*

- Built a machine learning-driven detection system for **cloud-native environments**, leveraging system call telemetry from **Kubernetes** clusters to identify stealthy **data breaches stemming from flawed API configurations** and enhanced security by distinguishing between benign and malicious activities during simulated advanced persistent threats (APTs)

SELECTED PROJECTS

- Vida AI - Cloud Engineering (July 2025)** - Spearheaded cloud transformation of AI consulting SaaS, building scalable **Azure** infrastructure with **Kubernetes** deployment with **OAuth**, **FrontDoor** multi-region distribution, and **MCP-based Slack integration**, delivering **10,000+ RPS** performance
- IoT Threat Detection via BLE (January 2025)** - Designed **IoT** monitoring system in **Rust** and **C** on Raspberry Pi 5, capturing **BLE syscalls** from **25+** devices with packet interception, achieving **94% accuracy** in anomaly detection
- EchoSphere (August 2024)** - Architected concurrent TCP chat room server in **Go** with thread-safe **goroutines** and **mutex synchronization**, scaling to **1000+** client connections while reducing memory usage by **12%** through optimized resource management
- EHIPS - Email Hidden In Plain Sight (February 2024)** - Implemented email security system with **5-layer encryption** integrating zero-width character steganography and Google's TLS protocol, achieving **26%** security enhancement and **14.5%** processing time reduction

SKILLS

Programming	C, GoLang , Java , JavaScript (Vanilla, Vue), Python , Rust , SQL (MySQL, PostgreSQL , SQLite)
Operating Systems	Linux (Arch , Kali , RaspiOS, Ubuntu), MacOS, Windows
DevOps & Cloud	AWS, Azure , Docker , Docker Swarm, FluxCD , Helm , Kubernetes , Terraform, Traefik
Tools & Technologies	DBeaver, Git , GitHub Actions , Grafana, gRPC, Jira, Postman, Temporal , Splunk, Vagrant

INVOLVEMENTS

- Tutoring Assistant (Present)** - Lead tutor for 55 students in introductory computer science course covering computational thinking, algorithms, big data, privacy and security, reinforcing programming fundamentals and societal impact of computing technology
- Bloomberg Senior Design Project (Present)** - Developing modern data entry interface using **React** and **Material UI** for Bloomberg's updated corporate event data model, implementing audit trail functionality, point-in-time lookup and correction capabilities, login/access control, and **NoSQL database** integration to support earnings calls, AGMs, and company announcements data management.
- Calibrate - Consultant (Present)** - Consulting an AI-driven fintech startup focused on youth investment decision-making, developing MVP-to-market strategy, technology recommendations, and pricing models for early-stage product launch
- Drexel CyberDragons - Member (September 2022 - April 2025)** - Part of Drexel University's cybersecurity club, gaining hands-on experience through labs, challenges, and over 10+ collegiate competitions